

**SMITH & LOWNEY, P.L.L.C.**

2317 EAST JOHN STREET  
SEATTLE, WASHINGTON 98112  
(206) 860-2883, FAX (206) 860-4187

October 21, 2016

**Via Certified Mail – Return Receipt Requested**

Attorney General Loretta E. Lynch  
U.S. Department of Justice  
950 Pennsylvania Ave., N.W.  
Washington, D.C. 20530-0001

**RECEIVED ON:**

OCT 27 2016

ORC

EPA Region 10  
Office of the Regional Administrator

**Via Certified Mail – Return Receipt Requested**

Attorney General – Citizen Suit Coordinator  
Environmental and Natural Resources Division  
Law and Policy Section  
P.O. Box 7415  
Ben Franklin Station  
Washington, D.C. 20044-7415

**Via Certified Mail – Return Receipt Requested**

Administer Gina McCarthy  
U.S. Environmental Protection Agency  
William Jefferson Clinton Building  
1200 Pennsylvania Avenue, N.W.  
Mail Code 1101A  
Washington, D.C. 20460

**Via Certified Mail – Return Receipt Requested**

Regional Administrator Dennis McLerran  
U.S. Environmental Protection Agency, Region 10  
1200 Sixth Ave., Suite 900  
Seattle WA 98101

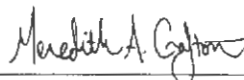
Re: *Puget Soundkeeper Alliance v. Samson Tug and Barge Company, Inc.*; W.D.  
Wash. No. 2:16-cv-00445-RSL

Dear Honorable Civil Servants,

Enclosed is a copy of the amended complaint filed Friday, October 21, 2016 in the Western District of Washington in the above-named Clean Water Act citizen suit. This amended complaint adds additional parties and claims. This notice is provided to you pursuant to 40 C.F.R. § 135.4.

Sincerely,

SMITH & LOWNEY, P.L.L.C.

By:   
Meredith A. Crafton

RECEIVED ON:

APR 10 1988

Office of the Regional Administrator  
EPA Region 10

THE HONORABLE ROBERT S. LASNIK

Knoll Lowney  
Meredith Crafton  
SMITH & LOWNEY, PLLC  
2317 East John Street  
Seattle, Washington 98112  
(206) 860-2883

Attorneys for Plaintiff

UNITED STATES DISTRICT COURT  
WESTERN DISTRICT OF WASHINGTON  
AT SEATTLE

PUGET SOUNDKEEPER ALLIANCE,

Plaintiff,

v.

SAMSON TUG AND BARGE CO. INC.,  
DUWAMISH MARINE CENTER,  
JACQUELINE H. GILMUR, JAMES D.  
GILMUR and the JAMES D. AND  
JACQUELINE H. GILMUR LIVING  
TRUST,

Defendants.

NO. 2:16-cv-00445-RSL

FIRST AMENDED COMPLAINT

**I. INTRODUCTION**

1. This action is a citizen suit brought under Section 505 of the Clean Water Act ("CWA") as amended, 33 U.S.C. § 1365. Plaintiff Puget Soundkeeper Alliance ("Soundkeeper") seeks a declaratory judgment, injunctive relief, the imposition of civil penalties, and the award of costs, including attorneys' and expert witnesses' fees for Defendants Samson Tug and Barge Co., Inc.'s ("Samson"), Duwamish Marine Center, and Jacqueline H. Gilmur, James D. Gilmur and the James D. and Jacqueline H. Gilmur Living Trust (the Gilmurs) repeated and ongoing

FIRST AMENDED COMPLAINT - 1  
NO. 2:16-cv-00445-RSL

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SEATTLE, WASHINGTON 98112  
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violations of Sections 301(a) and 402 of the CWA, 33 U.S.C. §§ 1311(a) and 1342, and the terms and conditions of Samson's National Pollutant Discharge Elimination System ("NPDES") permit authorizing discharges of pollutants from Defendants' Seattle, Washington, facility to navigable waters.

## II. JURISDICTION AND VENUE

2. The Court has subject matter jurisdiction over Plaintiff's claims under Section 505(a) of the CWA, 33 U.S.C. § 1365(a). Sections 309(d) and 505(a) and (d) of the CWA, 33 U.S.C. §§ 1319(d) and 1365(a) and (d) authorize the relief Plaintiff requests.

3. Under Section 505 (b)(1)(A) of the CWA, 33 U.S.C. § 1365(b)(1)(A), Plaintiff notified Defendants of Defendants' violations of the CWA and of Plaintiff's intent to sue under the CWA by letter dated and postmarked January 22, 2016 and delivered January 25, 2016 ("Notice Letter"). Plaintiff sent an additional notice letter to the Gilmurs directly June 8, 2016. A copy of the supplemental notice letter is attached to this complaint as Exhibit 1 ("Supplemental Notice Letter"). Plaintiff notified Defendants' Registered Agent, the Administrator of the United States Environmental Protection Agency ("USEPA"), the Administrator of USEPA Region 10, and the Director of the Washington Department of Ecology ("WDOE") of its intent to sue Defendants by mailing copies of the Notice Letters to these officials on January 22, 2016 and June 8, 2016 respectively.

4. More than sixty days have passed since the notices were served and the violations complained of in the Notice Letters are continuing or are reasonably likely to continue to occur. Defendants are in violation of Samson's NPDES permit and the CWA. Neither the USEPA nor the WDOE has commenced any action constituting diligent prosecution to redress these violations.

### III. PARTIES

7. Plaintiff has representational standing to bring this action. Soundkeeper's members are reasonably concerned about the effects of discharges of pollutants, including stormwater from Defendants' facility, on aquatic species and wildlife that Plaintiff's members observe, study, and enjoy. The recreational, scientific, economic, aesthetic and/or health interests of Soundkeeper and its member(s) have been, are being, and will be adversely affected by Defendants' violations of the CWA. The relief sought in this lawsuit can redress the injuries to these interests.

8. Plaintiff has organizational standing to bring this action. Plaintiff has been actively engaged in a variety of educational, advocacy, and restoration efforts to improve water quality and to address sources of water quality degradation in the waters of western Washington and Puget Sound. Defendants have failed to fulfill monitoring, recordkeeping, reporting and planning requirements, among others, necessary for compliance with its NPDES permit and the

1 CWA. As a result, Plaintiff is deprived of information necessary to properly serve its members  
2 by providing information and taking appropriate action. Plaintiff's efforts to educate and  
3 advocate for greater environmental protection, and to ensure the success of environmental  
4 restoration projects implemented for the benefit of its members are also precluded. Finally,  
5 Plaintiff and the public are deprived of information that influences members of the public to  
6 become members of Soundkeeper, thereby reducing Soundkeeper's membership numbers. Thus,  
7 Plaintiff's organizational interests have been adversely affected by Defendants' violations.  
8 These injuries are fairly traceable to Defendants' violations and redressable by the Court.  
9

10 9. Defendant, Samson Tug and Barge Co, Inc. ("Samson") is a corporation  
11 incorporated in Alaska and authorized to conduct business under the laws of the State of  
12 Washington. Samson is an interstate shipping company that operates a facility located at or about  
13 6361 1st Ave S, Seattle WA 98108, including any contiguous or adjacent properties owned or  
14 operated by Defendants (the "facility").  
15

16 10. Defendant, the Gilmurs own the facility which includes Samson Tug and Barge  
17 operations and Duwamish Marine Center as well as Duwamish Metal Fabrication which  
18 occupies the contiguous site to the south and shares common ownership and overlapping  
19 stormwater management systems. The Gilmurs operate Duwamish Marine Center as well as  
20 Duwamish Metal Fabrication and exercise sufficient control over the violations described herein  
21 to have liability under the CWA.  
22

23 11. Samson operations on the northern end of the facility include shipping cargo such  
24 as fish, fish products, construction equipment, and vehicles. Loading equipment (forklifts,  
25 cranes, etc.) is maintained on site.  
26  
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12. Duwamish Marine Center operations include primarily a transfer facility for sediments being shipped to Waste Management in Seattle, Washington on the southern portion of the facility. Duwamish Marine Center is also a certified waste recipient for transfer of dredged sediment.

#### IV. LEGAL BACKGROUND

13. Section 301(a) of the CWA, 33 U.S.C. § 1311(a), prohibits the discharge of pollutants by any person, unless in compliance with the provisions of the CWA. Section 301(a) prohibits, inter alia, such discharges not authorized by, or in violation of, the terms of a NPDES permit issued pursuant to Section 402 of the CWA, 33 U.S.C. § 1342.

14. The State of Washington has established a federally approved state NPDES program administered by the WDOE. Wash. Rev. Code § 90.48.260; Wash. Admin. Code Ch. 173-220. This program was approved by the Administrator of the USEPA pursuant to 33 U.S.C. § 1342(b).

15. The WDOE has repeatedly issued the Industrial Stormwater General Permit ("Permit") under Section 402(a) of the CWA, 33 U.S.C. § 1342(a), most recently on October 21, 2009, effective January 1, 2010, modified May 16, 2012 (the "2010 Permit"), and on December 3, 2014, effective January 2, 2015 (the "2015 Permit"). The 2010 Permit and the 2015 Permit (collectively, "the Permits") contain substantially similar requirements and authorize those that obtain coverage thereunder to discharge stormwater associated with industrial activity, a pollutant under the CWA, and other pollutants contained in the stormwater to the waters of the State subject to certain terms and conditions.

16. The Permits impose certain terms and conditions on those covered thereby, including monitoring and sampling of discharges, reporting and recordkeeping requirements, as

1 well as restrictions on the quality of stormwater discharges. To reduce and eliminate pollutant  
2 concentrations in stormwater discharges, the Permits require, among other things, that permittees  
3 develop and implement best management practices ("BMPs") and a Stormwater Pollution  
4 Prevention Plan ("SWPPP"), and apply all known and reasonable methods of prevention,  
5 control, and treatment ("AKART") to discharges. The specific terms and conditions of the  
6 Permits are described in detail in the Notice Letters and incorporated by reference herein. See  
7 Exhibit 1.  
8

9  
10 **V. FACTS**

11 17. Pursuant to Condition S2 of the Permits, Samson filed with the WDOE an  
12 Application for General Permit to Discharge Stormwater Associated with Industrial Activity.  
13 WDOE granted Defendant coverage for operations of Samson Tug & Barge Co under the  
14 General Permit for Defendants' facility under Permit Number WAR011484. WDOE previously  
15 granted Defendant coverage under an earlier version of the General Permit for Defendants'  
16 facility under Permit Number SO3011484.  
17

18 18. Duwamish Metal Fabrication occupies the contiguous site to the south and shares  
19 common ownership and overlapping stormwater management systems. Pursuant to Condition S2  
20 of the Permits, James Gilmur filed with the WDOE an Application for General Permit to  
21 Discharge Stormwater Associated with Industrial Activity. WDOE granted Defendant coverage  
22 for operations of Samson Tug & Barge Co under the General Permit for Defendants' facility  
23 under a separate permit, Permit Number WAR125423.  
24

25 19. Defendants' facility is engaged in industrial activity and discharges stormwater  
26 and other pollutants to the Duwamish Waterway.  
27  
28  
29



20. Discharges from Defendants' facility contribute to the polluted conditions of the waters of the State, including the Duwamish Waterway and Puget Sound. Discharges from Defendants' facility contribute to the ecological impacts that result from the polluted state of these waters and to Plaintiff's and their members' injuries resulting therefrom.

21. The vicinity of the facility and the receiving waters are used by the citizens of Washington and visitors, as well as at least one of Plaintiff's members, for recreational activities, including boating, fishing, nature watching and sightseeing. Plaintiff's member(s) also derive(s) aesthetic benefits from the receiving waters. Plaintiff's and its members' enjoyment of these activities and waters is diminished by the polluted state of the receiving waters and by Defendants' contributions to such polluted state.

22. Defendants have violated the Permits and Sections 301(a) and 402 of the CWA, 33 U.S.C. §§ 1311(a) and 1342, by discharging pollutants in violation of an NPDES Permit as well as discharging pollutants without an NPDES permit. Defendants' violations of the Permits and the CWA are set forth in full in sections I through VIII of the Notice Letters, attached hereto as Exhibit 1 and hereby incorporated by reference. In particular and among the other violations described in the Notice Letters, Defendants have discharged pollutants from its facility to waters of the United States without a NPDES permit, failed sample the discharge that accurately characterizes stormwater runoff from the facility, implement best management practices to control stormwater quality, limit illicit discharges, and properly complete corrective actions as required by the Permits.

23. Duwamish Marine Center has violated and continues to violate Section 301(a) of the CWA, 33 U.S.C. § 1311(a), by discharging pollutants from its facility to waters of the United States without a NPDES permit.

1           24. Defendants have violated the Permits and Sections 301(a) and 402 of the CWA,  
2 33 U.S.C. §§ 1311(a) and 1342, by discharging pollutants not in compliance with an NPDES  
3 Permit. Defendants have discharged stormwater containing levels of pollutants that exceed the  
4 benchmark values established by the Permits, including on the days on which Defendants  
5 collected samples with the results identified in bold in Table 1 below.  
6

7           25. The stormwater samples identified in Table 1 reflect the stormwater monitoring  
8 results that Defendants have submitted to WDOE.

9           26. Discharges of stormwater and/or wastewater from the facility cause and/or  
10 contribute to violations of water quality standards for zinc, copper, oil sheen, and turbidity and  
11 have occurred during the last five years and continue to occur each and every day on which there  
12 was 0.1 inch or more of precipitation.  
13

14           27. Defendants' stormwater discharges are causing or contributing to violations of  
15 water quality standards and therefore violate the Permits. Defendants' water quality standard  
16 violations are set forth in section II of the Supplemental Notice Letter attached hereto as Exhibit  
17 1 and are incorporated herein by this reference.  
18  
19  
20  
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| TABLE 1:<br>DISCHARGE MONITORING REPORT ("DMR") DATA FOR SAMSON<br>OUTFALL 1 (Bioswale) |                                    |                             |                                 |                       |                                  |   |  |                          |
|---|------------------------------------|-----------------------------|---------------------------------|-----------------------|----------------------------------|---|--|--------------------------|
| Quarter in<br>which sample<br>collected   | Turbidity<br>(Benchmark<br>25 NTU) | pH<br>(Benchmark<br>5-9 su) | Zinc<br>(Benchmark<br>117 µg/L) | Oil<br>Sheen<br>(Y/N) | Copper<br>(Benchmark<br>14 µg/L) | Total<br>Suspended<br>Solids*<br>(mg/L) | Diesel<br>NWTPHDx<br>(Benchmark<br><= 10 mg/L) | Notes                    |
| 1Q 2010   | <b>1000</b>                        | 8.5                         | <b>703</b>                      | Y                     | <b>249</b>                       |   |  |                          |
| 2Q 2010   |                                    |                             |                                 |                       |                                  |   |  | No DMR                   |
| 3Q 2010   | <b>59.8</b>                        | 8                           | <b>97.7</b>                     | N                     | <b>51.3</b>                      |   |  |                          |
| 4Q 2010   | <b>2000</b>                        | 8                           | <b>4330</b>                     | N                     | <b>1640</b>                      |   |  | Late<br>Submittal        |
| 1Q 2011   | <b>923.4</b>                       | 8                           | <b>362</b>                      | N                     | <b>122</b>                       |   |  |                          |
| 2Q 2011   | <b>763.4</b>                       | 7.5                         | <b>676</b>                      | N                     | <b>180</b>                       |   |  |                          |
| 3Q 2011   | <b>1312</b>                        | 6.5                         | <b>713</b>                      | N                     | <b>204</b>                       |   |  | Late<br>Submittal        |
| 4Q 2011   |                                    |                             |                                 |                       |                                  |   |  | Late<br>Submittal,<br>ND |
| 1Q 2012   | <b>670</b>                         | 6.7                         | <b>315</b>                      | N                     | <b>120</b>                       |   |  | Late<br>Submittal        |
| 2Q 2012   | <b>3000</b>                        | 8.6                         | <b>1060</b>                     | N                     | <b>365</b>                       |   |  |                          |
| 3Q 2012   |                                    |                             |                                 |                       |                                  |   |  | ND                       |
| 4Q 2012   | <b>3000</b>                        | 8.7                         | <b>616</b>                      | N                     | <b>146</b>                       |   |  |                          |
| 1Q 2013   | 12                                 | 8.2                         | 23.8                            | N                     | 5.12                             |   |  |                          |
| 2Q 2013   | <b>954</b>                         | 8.4                         | <b>1680</b>                     | N                     | <b>399</b>                       |   |  |                          |
| 3Q 2013   |                                    |                             |                                 |                       |                                  |   |  | No DMR                   |
| 4Q 2013   | <b>226</b>                         | 8.1                         | <b>817</b>                      | N                     | <b>172</b>                       |   |  |                          |
| 1Q 2014   | <b>294</b>                         | 6.6                         | <b>520</b>                      | N                     | <b>136</b>                       |   |  |                          |
| 2Q 2014   | <b>188</b>                         | 7.9                         | <b>168</b>                      | N                     | <b>54.9</b>                      |   |  | Late<br>Submittal        |
| 3Q 2014   |                                    |                             |                                 |                       |                                  |   |  | No DMR                   |
| 4Q 2014   |                                    |                             |                                 |                       |                                  |   |  | No DMR                   |
| 1Q 2015   | <b>&gt;3000</b>                    | 8.5                         | <b>5490</b>                     | N                     | <b>1060</b>                      | <b>22300</b>                            | .925   |                          |
| 2Q 2015   |                                    |                             |                                 |                       |                                  |   |  | ND                       |
| 3Q 2015   | 4                                  | 6.7                         | 12.9                            | N                     | 6.71                             | <5                                      | <1   |                          |
| 4Q 2015   | 5                                  | 6.4                         | 5.04                            | N                     | 3.61                             | <5                                      | .38  |                          |
| 1Q 2016   | 6.4                                | 8.4                         | 29.19                           | N                     | 4.61                             | 14                                      | <.15   |                          |
| 2Q 2016   | 9                                  | 7.8                         | 28                              | N                     | 6.94                             | 24                                      | <.15   |                          |

TABLE 1: Key: **Bold** = benchmark exceedances; "ND" = Reported No Discharge; "NC" = Analysis not conducted.

\* Total Suspended Solids (TSS) - Reporting Only. Facility on ISGP 303(d) TSS Compliance Schedule.

28. Although Defendants completed an updated SWPPP in November of 2015, this update SWPPP fails to meet a number of the minimum requirements set forth in Condition

1 S3.B.4.b.i of the Permits and referenced in section III of the Supplemental Notice Letter and are  
2 hereby incorporated by reference.

3 29. On information and belief, Defendants have violated these requirements of the  
4 Permits each and every day during the last five years and continues to violate them because its  
5 SWPPP is not consistent with permit requirements, is not fully implemented, and has not been  
6 updated as necessary.  
7

8 30. Defendants' SWPPP fails to include current conditions at the facility.

9 31. Condition S8.D.2.b of the 2010 Permit requires that a licensed professional  
10 engineer, geologist, hydrogeologist, or certified professional in storm water quality must design  
11 and stamp the portion of the SWPPP that addresses stormwater treatment structures or processes.  
12 Defendants' SWPPP fails to include the required information about its stormwater treatment  
13 systems and is not designed or stamped by a certified professional.  
14

15 32. Defendants' SWPPP fails to include a sampling plan that complies with the  
16 Permit's sampling requirements, which include Condition S4.B of the Permits. For example, but  
17 not by way of limitation, Defendants' sampling plan designates OUT1 as the only sampling  
18 location for the facility but samples taken from this location are not representative of stormwater  
19 discharges from the facility because there are other areas such as piers, docks, loading areas, and  
20 fueling areas where industrial activities occur which drain directly to the Duwamish Waterway  
21 and are not sampled. The SWPPP does not contain the requisite information to justify sampling  
22 only from OUT1.  
23

24 33. Condition S4.B of the Permits require Samson to collect a sample of its  
25 stormwater discharge once during every calendar quarter. Conditions S3.B.5.b and S4.B.2.c of  
26 the Permits require Samson to collect stormwater samples at each distinct point of discharge  
27  
28

1 offsite except for substantially identical outfalls, in which case only one of the substantially  
2 identical outfalls must be sampled.

3 34. Defendants have violated the monitoring and reporting requirements in the  
4 Permits as outlined in section IV of the Supplemental Notice Letter attached hereto as Exhibit 1  
5 and are incorporated herein by this reference. Defendants have failed to collect stormwater  
6 samples and/or submit discharge monitoring reports during all quarters as required by the  
7 Permits.  
8

9 35. Defendants have violated and continue to violate monitoring and reporting  
10 conditions because Samson takes stormwater samples from a single location that it refers to as  
11 OUT1, which is located at the south-west end of the facility. Defendants do not take  
12 representative samples from each distinct point of discharge off-site each quarter. Discharge  
13 points may include, but are not limited to drains, piers, docks, loading areas, and fueling areas  
14 where industrial activities occur.  
15

16 36. Condition S4.B of the Permits requires Defendants to collect a sample of  
17 stormwater discharge from the facility once during every calendar quarter. Condition S4.B.1.d  
18 of the Permits requires Defendants to obtain representative samples, which Appendix 2 of the  
19 Permits defines as “a sample of the discharge that accurately characterizes stormwater runoff  
20 generated in the designated drainage area of the facility.”  
21

22 37. Defendants did not conduct and/or complete the corrective action responses as  
23 required by the Permits. These requirements of the Permits and Defendants’ violations thereof  
24 are described in section V of the Supplemental Notice Letter, attached hereto as Exhibit 1, and  
25 are incorporated herein by this reference.  
26  
27  
28

1           38.     Condition S8.B of the Permits require a permittee to undertake a Level 1  
2 corrective action whenever it exceeds a benchmark value identified in Condition S5. A Level 1  
3 corrective action comprises review of the SWPPP to ensure permit compliance, revisions to the  
4 SWPPP to include additional operational source control BMPs with the goal of achieving the  
5 applicable benchmark values in future discharges, signature and certification of the revised  
6 SWPPP, summary of the Level 1 corrective action in the annual report, and full implementation  
7 of the revised SWPPP as soon as possible, but no later than the DMR due date for the quarter the  
8 benchmark was exceeded. Condition S8.A of the 2015 Permit requires that Defendants  
9 implement any Level 1 corrective action required by the 2010 Permit.  
10

11           39.     Defendants triggered Level 1 corrective action requirements for each benchmark  
12 exceedance identified in Table 1 above. Defendants violated the requirements of the Permits  
13 described above by failing to conduct Level 1 corrective actions in accordance with Permit  
14 conditions, including the required review, revision, and certification of the SWPPP, the required  
15 implementation of additional BMPs, and the required summarization in the annual report, when  
16 it exceeded benchmarks.  
17

18           40.     Condition S8.C of the Permits requires Defendants take specified actions, called a  
19 “Level Two Corrective Action,” each time quarterly stormwater sample results exceed an  
20 applicable benchmark value or are outside the benchmark range for pH for any two quarters  
21 during a calendar year. Condition S8.A of the 2015 Permit requires that Defendants implement  
22 any Level Two Corrective Action required by the 2010 Permit.  
23

24           41.     Defendants triggered Level 2 corrective action requirements each and every time  
25 quarterly stormwater sample results exceeded an applicable benchmark value or were outside the  
26 benchmark range for pH for any two quarters during a calendar year. Defendants failed to  
27  
28

1 conduct Level 2 corrective actions in accordance with permit conditions, including the required  
2 review, revision and certification of the SWPPP, the required implementation of additional  
3 BMPs to ensure that all points of discharge from the facility meet benchmarks (not just the  
4 sampled point of discharge), including additional structural source control BMPs, and the  
5 required summarization in the annual report. These violations include, but are not limited to,  
6 Defendants' failure to fulfill these obligations for turbidity, zinc, and copper triggered by its  
7 stormwater sampling during the calendar year of 2010 and every year since.

9 42. Condition S8.D of the Permits requires Defendants take specified actions, called a  
10 "Level Three Corrective Action," each time quarterly stormwater sample results exceed an  
11 applicable benchmark value or are outside the benchmark range for pH for any three quarters  
12 during a calendar year. Condition S8.A of the 2015 Permit requires that Defendants implement  
13 any Level Three Corrective Action required by the 2010 Permit.

15 43. Defendants triggered Level 3 corrective action requirements every time in the last  
16 five years its quarterly stormwater sampling results were greater than a benchmark or outside the  
17 benchmark range for pH for any three quarters during a calendar year. Defendants have violated  
18 the requirements of the Permits described above by failing to conduct a Level Three Corrective  
19 Action in accordance with permit conditions, including the required review, revision and  
20 certification of the SWPPP, including the requirement to have a specified professional design  
21 and stamp the portion of the SWPPP pertaining to treatment, the required implementation of  
22 additional BMPs, including additional treatment BMPs to ensure that all points of discharge from  
23 the facility (not just the sampled point of discharge) meet benchmarks, the required submission  
24 of an engineering report, plans, specifications, and an operations and maintenance plan prior to  
25 construction/installation, and the required summarization in the annual report each time during  
26  
27  
28

1 the last five years its quarterly stormwater sampling results were greater than a benchmark or  
2 outside the benchmark range for pH for any three quarters during a calendar year. As indicated  
3 in Table 1, these violations include, but are not limited to, Defendants' failure to fulfill these  
4 obligations for turbidity, zinc, and copper triggered by its stormwater sampling during the  
5 calendar year of 2011.

6  
7 44. Condition S9.B of the Permits requires Defendants to submit an accurate and  
8 complete annual report to WDOE no later than May 15<sup>th</sup> of each year that includes specific  
9 information. Defendants have violated this condition by failing to include all of the required  
10 information in the annual report it submitted for 2010, 2011, and 2012 and failed to submit  
11 completed Annual Reports for 2013, 2014, or 2015. For example, each of these reports fails to  
12 include all information about potential and actual stormwater problems identified during the  
13 previous calendar year through month site inspections. These reporting requirements and  
14 violations are described in section VI of the Supplemental Notice Letter, attached hereto as  
15 Exhibit 1, and are incorporated herein by this reference.  
16

17  
18 45. Defendants have violated and continue to violate Condition S9.C. of the Permits  
19 which requires Samson and Duwamish Marine Center to retain records for a minimum of five  
20 years a copy of the Permits. These violations are described in section VII of the Supplemental  
21 Notice Letter, attached hereto as Exhibit 1, and are incorporated herein by this reference.  
22

23 46. Defendants have violated and continue to violate Condition S5.E. of the Permits  
24 which prohibits illicit discharges and the discharge of process wastewater. These violations are  
25 described in section VIII of the Supplemental Notice Letter, attached hereto as Exhibit 1, and are  
26 incorporated herein by this reference.  
27  
28



1           47.     Appendix 2 of the Permits defines "illicit discharges" to include "any *discharge*  
2     that is not composed entirely of *stormwater* except (1) discharges authorized pursuant to a  
3     separate NPDES permit, or (2) conditionally authorized non-stormwater discharge identified in  
4     Condition S5.D." Defendants have violated and continue to violate these conditions by  
5     discharging from the facility pollutants other than those contained in and carried by its industrial  
6     stormwater. This includes, but is not limited to, vehicle wash water as well as discharges of non-  
7     stormwater pollutants from the facility.  
8

9           48.     A penalty should be imposed against Defendants pursuant to the penalty factors  
10     set forth in 33 U.S.C. § 1319(d).  
11

12           49.     Defendants' violations of the CWA degrade the environment and the water  
13     quality of the receiving water bodies.

14           50.     Defendants have benefited economically as a consequence of their violations and  
15     their failure to timely implement improvements at the facility.  
16

## 17                               VI.     CAUSE OF ACTION

18           51.     The preceding paragraphs are incorporated herein.

19           52.     Defendants' violations of Samson's NPDES permit described herein and in the  
20     Notice Letters constitute violations of sections 301 and 402 of the Clean Water Act, 33 U.S.C. §§  
21     1311 and 1342, and violations of "effluent standard(s) or limitation(s)" as defined by section 505,  
22     33 U.S.C. § 1365.  
23

24           53.     On information and belief, violations committed by Defendants are ongoing or are  
25     reasonably likely to continue to occur. Any and all additional violations of the Permits and the  
26     CWA which occur after those described in Plaintiff's Notice Letters but before a final decision in  
27     this action should be considered continuing violations subject to this Complaint.  
28

1           54.     Without the imposition of appropriate civil penalties and the issuance of an  
2 injunction, Defendants are likely to continue to violate the General Permit and the CWA to the  
3 further injury of the Plaintiff, its member(s) and others.

4           55.     A copy of this Complaint was served upon the Attorney General of the United  
5 States and the Administrator of the USEPA as required by 33 U.S.C. § 1365(c)(3).  
6

7                               **VII. RELIEF REQUESTED**

8           Wherefore, Plaintiff respectfully requests that this Court grant the following relief:

9           A.     Issue a declaratory judgment that Defendants have violated and continues to be in  
10 violation of the Permits and Sections 301 and 402 of the Clean Water Act, 33 U.S.C. §§ 1311  
11 and 1342;  
12

13          B.     Enjoin Defendants from operating the facility in a manner that results in further  
14 violations of the Permits or the Clean Water Act;

15          C.     Order Defendants, Duwamish Marine Center to immediately obtain proper  
16 coverage under the Permits.  
17

18          D.     Order Defendants to immediately implement a Storm Water Pollution Prevention  
19 Plan that is in compliance with the Permits, and to provide Plaintiff with a copy of this Plan, and  
20 to take other necessary actions to bring them into compliance with the Clean Water Act;  
21

22          E.     Order Defendants to allow Plaintiff to participate in the development and  
23 implementation of Defendants' Storm Water Pollution Prevention Plan;

24          F.     Order Defendants to provide Plaintiff, for a period beginning on the date of the  
25 Court's Order and running for one year after Defendants achieve compliance with all of the  
26 conditions of the Permits, with copies of all reports and other documents which Defendants  
27  
28

1 submit to the USEPA or to the WDOE regarding Defendants' coverage under the Permits at the  
2 time it is submitted to these authorities;

3 G. Order Defendants to take specific actions to remediate the environmental harm  
4 caused by its violations;

5 H. Order Defendants to pay civil penalties of \$37,500.00 per day of violation for  
6 each violation committed by Defendant through November 2, 2015 and to pay \$51,570 per day  
7 of violation for each violation committed by Defendant after November 2, 2015, pursuant to  
8 Sections 309(d) and 505(a) of the CWA, 33 U.S.C. §§ 1319(d) and 1365(a), and 40 C.F.R. § 19  
9 and 19.4.;

10 I. Award Plaintiff their litigation expenses, including reasonable attorneys' and  
11 expert witnesses' fees, as authorized by Section 505(d) of the CWA, 33 U.S.C. § 1365(d); and  
12

13 J. Award such other relief as this Court deems appropriate.  
14  
15

16 RESPECTFULLY SUBMITTED this 21st day of October, 2016.

17 SMITH & LOWNEY, PLLC  
18

19 By: s/ Meredith A. Crafton  
Meredith A. Crafton, WSBA #46558

20 By: s/ Knoll Lowney  
21 Knoll Lowney, WSBA # 23457  
22 Attorneys for Plaintiff  
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26  
27  
28  
29

**CERTIFICATE OF SERVICE**

I hereby certify that on this day I electronically filed the foregoing with the Clerk of the Court using the CM/ECF system which will send notification of such filing to the attorneys of record.

DATED this 21st day of October 2016.

s/ Meredith A. Crafton

MEREDITH A. CRAFTON

Smith & Lowney, PLLC

## **EXHIBIT 1**

**SMITH & LOWNEY, P.L.L.C.**

2317 EAST JOHN STREET  
SEATTLE, WASHINGTON 98112  
(206) 860-2883, FAX (206) 860-4187

June 8, 2016

**Via Certified Mail - Return Receipt Requested**

Jacqueline H. and James D. Gilmur  
8027 NE 175th  
Kenmore, WA 98028

Gilmur Living Trust  
8027 NE 175th  
Kenmore, WA 98028

Duwamish Marine Center, Inc.  
c/o James Gilmur, President  
16 S Michigan St  
Seattle, WA 98108

Re: **NOTICE OF INTENT TO SUE UNDER THE CLEAN WATER ACT AND  
REQUEST FOR COPY OF STORMWATER POLLUTION PREVENTION  
PLAN**

We represent Puget Soundkeeper Alliance ("Soundkeeper"), 130 Nickerson Street, Suite 107, Seattle, WA 98109, (206) 297-7002. Any response or correspondence related to this matter should be directed to Smith & Lowney at the letterhead address. This letter is to provide you with sixty days notice of Soundkeeper's intent to file a citizen suit against the Duwamish Marine Center, Inc., Jacqueline H. and James D. Gilmur, and the Gilmur Living Trust under section 505 of the Clean Water Act ("CWA"), 33 U.S.C. § 1365, for the violations described below. This letter is also a request for a copy of the complete and current stormwater pollution prevention plan ("SWPPP") required by the National Pollution Discharge Elimination System ("NPDES") permit.

Samson Tug and Barge Co, Inc. ("Samson") is an interstate shipping company that operates a facility located at or about 6361 1st Ave S, Seattle WA 98108, including any contiguous or adjacent properties owned or operated by Defendants (the "facility"). Samson was granted coverage effective March 12, 2009, under Washington's Industrial Stormwater General Permit ("ISGP") issued by the Washington Department of Ecology ("Ecology") on August 21, 2002, effective September 20, 2002, modified on December 1, 2004, reissued on August 15, 2007, effective September 15, 2007, reissued again on October 15, 2008, effective November 15, 2008, and remaining effective through December 31, 2009, under NPDES permit No. SO3011484 (the "2002 Permit"). Samson was granted coverage under the subsequent iteration of the Washington ISGP issued by Ecology on October 21, 2009, effective January 1, 2010, modified May 16, 2012, effective July 1, 2012, and remaining

effective through January 1, 2015, under NPDES Permit No. WAR011484 (the “2010 Permit”). Ecology granted coverage under the current iteration of the ISGP, issued by Ecology on December 3, 2014, effective January 2, 2015, and set to expire on December 31, 2019, (the “2015 Permit”) and maintains the same permit number, WAR011484.

Based on information available to Soundkeeper, Duwamish Marine Center operates primarily as a transfer facility for sediments being shipped to Waste Management in Seattle at the same or contiguous property as Samson located at or about 16 S Michigan St, Seattle, WA 98108, and should be a designated co-permittee with Samson under permit number, WAR011484.

Based on information available to Soundkeeper, Jacqueline H. and James D. Gilmur and the Gilmur Living Trust have an ownership and/or management interest in the property that makes them legally responsible for the violations asserted herein.

## **I. UNPERMITTED DISCHARGES**

The CWA, 33 U.S.C. §§ 1311 and 1342, prohibits the discharge of pollutants, including stormwater associated with industrial activity, to waters of the United States, except as authorized by a National Pollutant Discharge Elimination System (“NPDES”) permit. Duwamish Marine Center has violated and continues to violate Section 301(a) of the CWA, 33 U.S.C. § 1311(a), by discharging pollutants from its facility to waters of the United States without a NPDES permit.

Duwamish Marine Center discharges industrial stormwater and pollutants to the Duwamish Waterway directly and/or via a stormwater drainage system. On information and belief these pollutants include turbidity, suspended and dissolved solids, oxygen demanding substances, hydrocarbons, and metals, including copper and zinc. These violations of the CWA have occurred on each day from July 7, 2011, through the present during which there was a stormwater discharge from the facility, generally including days on which there has been at least 0.1 inch of precipitation, and continue to occur. Precipitation data from Boeing Field - King County International Airport (KBFI) identifying such days is appended to this notice of intent to sue. The violations alleged in this notice of intent to sue will continue until the Duwamish Marine Center obtains and comes into compliance with the 2015 Permit authorizing such discharges.<sup>1</sup>

Should Duwamish Marine Center currently be a co-permittee or obtain NPDES Permit coverage for the facility, compliance with the Permits require Duwamish Marine Center to correct the deficiencies identified below. Soundkeeper hereby provides notice of its intent to sue for these violations of the Permits.

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<sup>1</sup> Soundkeeper is aware that Samson’s SWPPP includes the Duwamish Marine Center, but the permit records do not indicate Duwamish Marine Center and Samson Tug and Barge are co-permittees at the facility.

## II. COMPLIANCE WITH STANDARDS.

Samson and Duwamish Marine Center have violated and continue to violate the terms and conditions of the 2010 Permit and 2015 Permit (collectively, the "Permits") with respect to operations of, and discharges of stormwater and pollutants from, its facility, Samson Tug and Barge Co and Duwamish Marine Center located at or near 6361 1st Ave S, Seattle WA 98108-3228 (the "Facility"). The facility subject to this notice includes any contiguous or adjacent properties owned or operated by Defendants.

### A. Violations of Water Quality Standards.

Condition S10.A of the Permits prohibit discharges that cause or contribute to violations of water quality standards. Water quality standards are the foundation of the CWA and Washington's efforts to protect clean water. In particular, water quality standards represent the U.S. Environmental Protection Agency ("EPA") and Ecology's determination, based on scientific studies, of the thresholds at which pollution starts to cause significant adverse effects on fish or other beneficial uses. For each water body in Washington, Ecology designates the "beneficial uses" that must be protected through the adoption of water quality standards.

A discharger must comply with both narrative and numeric water quality standards. WAC 173-201A-010; WAC 173-201A-510 ("No waste discharge permit can be issued that causes or contributes to a violation of water quality criteria, except as provided for in this chapter."). Narrative water quality standards provide legal mandates that supplement the numeric standards. Furthermore, narrative water quality standards apply with equal force, even when Ecology has established numeric water quality standards. Specifically, Condition S10.A of the Permits require Samson's discharges not cause or contribute to violations of Washington State's water quality standards.

Samson and Duwamish Marine Center discharge stormwater to the Lower Duwamish Waterway. Samson discharges stormwater that contains elevated levels of copper, zinc, and turbidity as indicated in the table of discharge monitoring data below. Further, the data provided in the tables below represent samples collected from only one of the facility's discharge points. Discharges of stormwater and/or wastewater from the facility cause and/or contribute to violations of water quality standards for zinc, copper, oil sheen, and turbidity and have occurred each and every day during the last five years on which there was 0.1 inch or more of precipitation, and continue to occur. These water quality standards include those set forth in WAC 173-201A-200(1)(e), -240, and -260(2). Precipitation data from the last five years are appended to this notice of intent to sue and identify days when precipitation met or exceed 0.1 inches per day.

Additionally, Ecology conducted a stormwater sampling inspection at the Facility in February of 2015 which returned results that showed facility discharge exceeded one or more water quality criteria for copper, lead, mercury, nickel, zinc, total PCB congeners, dioxins and furans, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, bis(2-Ethylhexyl)phthalate, 2,4,6-trichlorophenol, pentachlorophenol, bis-(2-chloroethyl) ether, hexachlorobenzene, N-



nitrosodimethylamine, N-nitroso-di-N-propylamine, and total suspended solids. See Leidos, Lower Duwamish Waterway NPDES Inspection Sampling Report 2014/2015, Samson Tug & Barge available at <https://fortress.wa.gov/ecy/gsp/DocViewer.ashx?did=47740>.

| <b>TABLE 1:<br/>DISCHARGE MONITORING REPORT ("DMR") DATA FOR SAMSON FACILITY<br/>OUTFALL 1 (Bioswale)</b> |                              |                       |                           |                 |                            |                                |                                      |                    |
|---|------------------------------|-----------------------|---------------------------|-----------------|----------------------------|--------------------------------|--------------------------------------|--------------------|
| Quarter in which sample collected   | Turbidity (Benchmark 25 NTU) | pH (Benchmark 5-9 su) | Zinc (Benchmark 117 µg/L) | Oil Sheen (Y/N) | Copper (Benchmark 14 µg/L) | Total Suspended Solids* (mg/L) | Diesel NWTPHDx (Benchmark ≤ 10 mg/L) | Notes              |
| 1Q 2010   | <b>1000</b>                  | 8.5                   | <b>703</b>                | <b>Y</b>        | <b>249</b>                 |                                |                                      |                    |
| 2Q 2010   |                              |                       |                           |                 |                            |                                |                                      | No DMR             |
| 3Q 2010   | <b>59.8</b>                  | 8                     | <b>97.7</b>               | N               | <b>51.3</b>                |                                |                                      |                    |
| 4Q 2010   | <b>2000</b>                  | 8                     | <b>4330</b>               | N               | <b>1640</b>                |                                |                                      | Late Submittal     |
| 1Q 2011   | <b>923.4</b>                 | 8                     | <b>362</b>                | N               | <b>122</b>                 |                                |                                      |                    |
| 2Q 2011   | <b>763.4</b>                 | 7.5                   | <b>676</b>                | N               | <b>180</b>                 |                                |                                      |                    |
| 3Q 2011   | <b>1312</b>                  | 6.5                   | <b>713</b>                | N               | <b>204</b>                 |                                |                                      | Late Submittal     |
| 4Q 2011   |                              |                       |                           |                 |                            |                                |                                      | Late Submittal, ND |
| 1Q 2012   | <b>670</b>                   | 6.7                   | <b>315</b>                | N               | <b>120</b>                 |                                |                                      | Late Submittal     |
| 2Q 2012   | <b>3000</b>                  | 8.6                   | <b>1060</b>               | N               | <b>365</b>                 |                                |                                      |                    |
| 3Q 2012   |                              |                       |                           |                 |                            |                                |                                      | ND                 |
| 4Q 2012   | <b>3000</b>                  | 8.7                   | <b>616</b>                | N               | <b>146</b>                 |                                |                                      |                    |
| 1Q 2013   | 12                           | 8.2                   | 23.8                      | N               | 5.12                       |                                |                                      |                    |
| 2Q 2013   | <b>954</b>                   | 8.4                   | <b>1680</b>               | N               | <b>399</b>                 |                                |                                      |                    |
| 3Q 2013   |                              |                       |                           |                 |                            |                                |                                      | No DMR             |
| 4Q 2013   | <b>226</b>                   | 8.1                   | <b>817</b>                | N               | <b>172</b>                 |                                |                                      |                    |
| 1Q 2014   | <b>294</b>                   | 6.6                   | <b>520</b>                | N               | <b>136</b>                 |                                |                                      |                    |
| 2Q 2014   | <b>188</b>                   | 7.9                   | <b>168</b>                | N               | <b>54.9</b>                |                                |                                      | Late Submittal     |
| 3Q 2014   |                              |                       |                           |                 |                            |                                |                                      | No DMR             |
| 4Q 2014   |                              |                       |                           |                 |                            |                                |                                      | No DMR             |
| 1Q 2015   | <b>&gt;3000</b>              | 8.5                   | <b>5490</b>               | N               | <b>1060</b>                | <b>22300</b>                   | .925                                 |                    |
| 2Q 2015   |                              |                       |                           |                 |                            |                                |                                      | ND                 |
| 3Q 2015   | 4                            | 6.7                   | 12.9                      | N               | 6.71                       | <5                             | <1                                   |                    |
| 4Q 2015   | 5                            | 6.4                   | 5.04                      | N               | 3.61                       | <5                             | .38                                  |                    |
| 1Q 2016   | 6.4                          | 8.1                   | 29.186                    | N               | 4.612                      | 14                             | <.15                                 | (Averages)         |

Key: Bold = benchmark exceedances; "ND" = Reported No Discharge; "NC" = Analysis not conducted.

\* Total Suspended Solids (TSS) - Reporting Only - On ISGP 303(d) TSS Compliance Schedule.

**B. Compliance with Standards.**

Condition S10.C of the Permits requires Samson and Duwamish Marine Center to apply all known and reasonable methods of prevention, control and treatment ("AKART") to all discharges, including preparing and implementing an adequate SWPPP and best management practices ("BMPs"). Samson and Duwamish Marine Center have violated and continue to violate these conditions by failing to apply AKART to discharges by, among other things, failing to implement an adequate SWPPP and BMPs as evidenced by the elevated levels of pollutants in its discharge. See Table 1; Section II. These violations have occurred on each and every day for the previous five years and continue to occur every day.

Condition S1.A of the Permits require that all discharges and activities authorized be consistent with the terms and conditions of the permit. Samson and Duwamish Marine Center have violated this condition by discharging and acting inconsistent with the conditions of the Permits as described in this Notice of Intent to Sue.

**III. STORMWATER POLLUTION PREVENTION PLAN VIOLATIONS.**

Samson and Duwamish Marine Center have not developed and implemented a SWPPP that complies with the requirements of the Permits. In the following section, upon information and belief, Soundkeeper asserts that the SWPPP and its implementation violate the Permits as follows.

Condition S3.A.1 of the Permits require Samson and Duwamish Marine Center to develop and implement a SWPPP as specified in these permits. Condition S3.A.2 of the Permits require the SWPPP to specify BMPs necessary to provide AKART and ensure that discharges do not cause or contribute to violations of water quality standards. On information and belief, Samson and Duwamish Marine Center have violated these requirements of the Permits each and every day during the last five years and continues to violate them as it has failed to prepare and/or implement a SWPPP that includes AKART and BMPs necessary to comply with state water quality standards.

Condition S3.A of the Permits require Samson and Duwamish Marine Center to have and implement a SWPPP that is consistent with permit requirements, fully implemented as directed by permit conditions, and updated as necessary to maintain compliance with permit conditions. On information and belief, Samson and Duwamish Marine Center have violated these requirements of the Permits each and every day during the last five years and continues to violate them because its SWPPP is not consistent with permit requirements, is not fully implemented, and has not been updated as necessary.

The SWPPP fails to satisfy the requirements of Condition S3 of the Permits because it does not adequately describe BMPs. Condition S3.B.4 of the Permits requires that the SWPPP include a description of the BMPs that are necessary for the facility to eliminate or reduce the potential to contaminate stormwater. Condition S3.B.4 of the 2015 Permit requires

that the SWPPP detail how and where the selected BMPs will be implemented. Condition S3.A.3 of the Permits requires that the SWPPP include BMPs consistent with approved stormwater technical manuals or document how stormwater BMPs included in the SWPPP are demonstratively equivalent to the practices contained in the approved stormwater technical manuals, including the proper selection, implementation, and maintenance of all applicable and appropriate BMPs. Samson and Duwamish Marine Center's SWPPP does not comply with these requirements because it does not adequately describe and explain in detail the BMPs selected, does not include BMPs consistent with approved stormwater technical manuals, and does not include BMPs that are demonstratively equivalent to such BMPs with documentation of BMP adequacy.

Samson and Duwamish Marine Center's SWPPP fails to satisfy the requirements of Condition S3.B.2 of the Permits because it fails to include a facility assessment. The SWPPP fails to include an adequate facility assessment because it does not describe the industrial activities conducted at the site, the general layout of the facility including buildings and storage of raw materials, the flow of goods and materials through the facility, the regular business hours, and the seasonal variations in business hours or in industrial activities.

Samson and Duwamish Marine Center's SWPPP fails to satisfy the requirements of Condition S3.B.1 of the Permits because it does not include a site map that identifies significant features, the stormwater drainage and discharge structures, the stormwater drainage areas for each stormwater discharge point off-site, a unique identifying number for each discharge point, each sampling location with a unique identifying number, paved areas and buildings, areas of pollutant contact associated with specific industrial activities, conditionally approved non-stormwater discharges, surface water locations, areas of existing and potential soil erosion, vehicle maintenance areas, and lands and waters adjacent to the site that may be helpful in identifying discharge points or drainage routes.

Samson and Duwamish Marine Center's SWPPP fails to comply with Condition S3.B.2.b of the Permits because it does not include an inventory of industrial activities that identifies all areas associated with industrial activities that have been or may potentially be sources of pollutants. The SWPPP does not identify all areas associated with loading and unloading of dry bulk materials or liquids, outdoor storage of materials or products, outdoor manufacturing and processing, onsite dust or particulate generating processes, on-site waste treatment, storage, or disposal, vehicle and equipment fueling, maintenance, and/or cleaning, roofs or other surfaces exposed to air emissions from a manufacturing building or a process area, and roofs or other surfaces composed of materials that may be mobilized by stormwater as required by these permit conditions.

Samson and Duwamish Marine Center's SWPPP does not comply with Condition S3.B.2.c of the Permits because it does not include an adequate inventory of materials. The SWPPP does not include an inventory of materials that lists the types of materials handled at the site that potentially may be exposed to precipitation or runoff and that could result in stormwater pollution, a short narrative for each material describing the potential for the pollutants to be present in stormwater discharge that is updated when data becomes available to verify the presence or absence of the pollutants, a narrative description of any potential sources of pollutants from past activities, materials and spills that were previously handled,

treated, stored, or disposed of in a manner to allow ongoing exposure to stormwater as required. The SWPPP does not include the method and location of on-site storage or disposal of such materials and a list of significant spills and significant leaks of toxic or hazardous pollutants as these permit conditions require.

Samson and Duwamish Marine Center's SWPPP does not comply with Condition S3.B.3 of the Permits because it does not identify specific individuals by name or title whose responsibilities include SWPPP development, implementation, maintenance and modification.

Condition S3.B.4 of the Permits requires that permittees include in their SWPPPs and implement certain mandatory BMPs unless site conditions render the BMP unnecessary, infeasible, or an alternative and equally effective BMP are provided. Samson and Duwamish Marine Center are in violation of this requirement because it has failed to include in its SWPPP and implement the mandatory BMPs of the Permits.

Samson's SWPPP does not comply with Condition S3.B.4.b.i of the Permits because it does not include required operational source control BMPs in the following categories: good housekeeping (including definition of ongoing maintenance and cleanup of areas that may contribute pollutants to stormwater discharges, and a schedule/frequency for each housekeeping task); preventive maintenance (including BMPs to inspect and maintain stormwater drainage and treatment facilities, source controls, treatment systems, and plant equipment and systems, and the schedule/frequency for each task); spill prevention and emergency cleanup plan (including BMPs to prevent spills that can contaminate stormwater, for material handling procedures, storage requirements, cleanup equipment and procedures, and spill logs); employee training (including an overview of what is in the SWPPP, how employees make a difference in complying with the SWPPP, spill response procedures, good housekeeping, maintenance requirements, material management practices, how training will be conducted, the frequency/schedule of training, and a log of the dates on which specific employees received training); inspections and recordkeeping (including documentation of procedures to ensure compliance with permit requirements for inspections and recordkeeping, including identification of personnel who conduct inspections, provision of a tracking or follow-up procedure to ensure that a report is prepared and appropriate action taken in response to visual monitoring, definition of how Samson and Duwamish Marine Center will comply with signature and record retention requirements, certification of compliance with the SWPPP and Permit, and all inspection reports completed by Samson and Duwamish Marine Center).

Samson and Duwamish Marine Center's SWPPP does not comply with Condition S3.B.4.b.i.7 of the Permits because it does not include measures to identify and eliminate the discharge of process wastewater, domestic wastewater, noncontact cooling water, and other illicit discharges to stormwater sewers, or to surface waters and ground waters of the state.

Samson and Duwamish Marine Center's SWPPP does not comply with Condition S3.B.4.b.ii of the Permits because it does not include required structural source control BMPs to minimize the exposure of manufacturing, processing, and material storage areas to rain, snow, snowmelt, and runoff. Samson and Duwamish Marine Center's SWPPP does not

comply with Condition S3.B.4.b.iii of the Permits because it does not include treatment BMPs as required.

Samson and Duwamish Marine Center's SWPPP fails to comply with Condition S3.B.4.b.v of the Permits because it does not include BMPs to prevent the erosion of soils or other earthen materials and prevent off-site sedimentation and violations of water quality standards.

Samson and Duwamish Marine Center's SWPPP fails to satisfy the requirements of Condition S3.B.5 of the Permits because it fails to include a stormwater sampling plan as required. The SWPPP does not include a sampling plan that identifies points of discharge to surface waters, storm sewers, or discrete ground water infiltration locations, documents why each discharge point is not sampled, identifies each sampling point by its unique identifying number, identifies staff responsible for conducting stormwater sampling, specifies procedures for sampling collection and handling, specifies procedures for sending samples to the a laboratory, identifies parameters for analysis, holding times and preservatives, laboratory quantization levels, and analytical methods, and that specifies the procedure for submitting the results to Ecology.

#### **IV. MONITORING AND REPORTING VIOLATIONS.**

##### **A. Failure to Collect Quarterly Samples.**

Condition S4.B of the Permits require Samson and Duwamish Marine Center to collect a sample of stormwater discharge once during every calendar quarter. Conditions S3.B.5.b and S4.B.2.c of the Permits require Samson and Duwamish Marine Center to collect stormwater samples at each distinct point of discharge offsite except for substantially identical outfalls, in which case only one of the substantially identical outfalls must be sampled. Discharge points may include, but are not limited to drains, piers, docks, loading areas, and fueling areas where industrial activities occur. Conditions S3.B.5.b and S4.B.2.c set forth sample collection criteria, but require the collection of a sample even if the criteria cannot be met.

Samson and Duwamish Marine Center violated these requirements by failing to collect stormwater samples at any of the facility's discharge points during the following quarters:

- 1st Quarter 2010
- 2nd Quarter 2010
- 3rd Quarter 2010
- 4th Quarter 2010
- 1st Quarter 2011
- 2nd Quarter 2011
- 3rd Quarter 2011
- 4th Quarter 2011
- 1st Quarter 2012
- 2nd Quarter 2012
- 3rd Quarter 2012

4th Quarter 2012  
1st Quarter 2013  
2nd Quarter 2013  
3rd Quarter 2013  
4th Quarter 2013  
1st Quarter 2014  
2nd Quarter 2014  
3rd Quarter 2014  
4th Quarter 2014  
1st Quarter 2015  
2nd Quarter 2015  
3rd Quarter 2015  
4th Quarter 2015

These violations have occurred and continue to occur each and every quarter during the last five years that Samson and Duwamish Marine Center were and are required to sample its stormwater discharges, including the quarters in which it collected stormwater discharge samples from some, but not all, points of discharge. These violations will continue until Samson and Duwamish Marine Center commence monitoring all distinct points of discharge and taking representative samples.

**B. Failure to Analyze Quarterly Samples.**

Conditions S5.A.1 and S5.B.1 of the Permits requires Samson and Duwamish Marine Center to analyze stormwater samples collected quarterly for turbidity, pH, total copper, total zinc, oil sheen, total suspended solids, and diesel (NWTPHDx).

Samson and Duwamish Marine Center violated these conditions by failing to analyze stormwater samples from each distinct discharge point for any of the required parameters during the following quarters as further specified in table 1 above:

2nd Quarter 2010  
4th Quarter 2011  
3rd Quarter 2012  
3rd Quarter 2013  
3rd Quarter 2014  
4th Quarter 2014  
2nd Quarter 2015

**C. Failure to Timely Submit Discharge Monitoring Reports.**

Condition S9.A of the Permits require Samson and Duwamish Marine Center to use DMR forms provided or approved by Ecology to summarize, report and submit monitoring data to Ecology. For each monitoring period (calendar quarter) a DMR must be completed and submitted to Ecology not later than 45 days after the end of the monitoring period. Samson and Duwamish Marine Center have violated these conditions by failing to timely submit a DMR within the time prescribed for the following quarters:



2nd Quarter 2010  
4th Quarter 2010 (Late)  
3rd Quarter 2011 (Late)  
4th Quarter 2011 (Late)  
3rd Quarter 2013  
2nd Quarter 2014 (Late)  
3rd Quarter 2014  
4th Quarter 2014

**D. Failure to Comply with Visual Monitoring Requirements.**

Condition S7.A of the Permits requires that monthly visual inspections be conducted at the facility by qualified personnel. Each inspection is to include observations made at stormwater sampling locations and areas where stormwater associated with industrial activity is discharged, observations for the presence of floating materials, visible oil sheen, discoloration, turbidity, odor, etc. in the stormwater discharges, observations for the presence of illicit discharges, a verification that the descriptions of potential pollutant sources required by the permit are accurate, a verification that the site map in the SWPPP reflects current conditions, and an assessment of all BMPs that have been implemented (noting the effectiveness of the BMPs inspected, the locations of BMPs that need maintenance, the reason maintenance is needed and a schedule for maintenance, and locations where additional or different BMPs are needed).

Condition S7.C of the Permits requires that Samson and Duwamish Marine Center record the results of each inspection in an inspection report or checklist that is maintained on-site and that documents the observations, verifications, and assessments required. The report/checklist must include the time and date of the inspection, the locations inspected, a statement that, in the judgment of the person conducting the inspection and the responsible corporate officer, the facility is either in compliance or out of compliance with the SWPPP and the Permits, a summary report and schedule of implementation of the remedial actions that Samson and Duwamish Marine Center plan to take if the site inspection indicates that the facility is out of compliance, the name, title, signature and certification of the person conducting the facility inspection, and a certification and signature of the responsible corporate officer or a duly authorized representative.

Samson and Duwamish Marine Center are in violation of these requirements of Condition S7 of the Permits because, during the last five years, it has failed to conduct each of the requisite visual monitoring and inspections, failed to prepare and maintain the requisite inspection reports or checklists for each visual monitoring and inspection, and failed to make the requisite certifications and summaries for each visual monitoring and inspection.

## **V. CORRECTIVE ACTION VIOLATIONS.**

### **A. Violations of the Level One Requirements of the Permits.**

Condition S8.B of the Permits requires Samson and Duwamish Marine Center to take specified actions, called a "Level One Corrective Action," each time quarterly stormwater sample results exceed a benchmark value or are outside the benchmark range for pH. Condition S8.A of the 2015 Permit requires that Samson and Duwamish Marine Center implement any Level One Corrective Action required by the 2010 Permit.

As described by Condition S8.B of the Permits, a Level One Corrective Action requires Samson and Duwamish Marine Center: (1) review the SWPPP for the facility and ensure that it fully complies with Condition S3 of the 2010 Permit and contains the correct BMPs from the applicable Stormwater Management Manual; (2) make appropriate revisions to the SWPPP to include additional operational source control BMPs with the goal of achieving the applicable benchmark values in future discharges and sign and certify the revised SWPPP in accordance with Condition S3.A.6 of the 2010 Permit; and (3) summarize the Level One Corrective Action in the Annual Report required under Condition S9.B of the Permits. Condition S8.B.4 of the Permits requires that Samson and Duwamish Marine Center implement the revised SWPPP as soon as possible, and no later than the DMR due date for the quarter the benchmark was exceeded.

Condition S5.A and Tables 2 and 3 of the Permits establish the following benchmarks: turbidity 25 NTU; pH 5 – 9 SU; total copper 14 µg/L; total zinc 117 µg/L; and petroleum hydrocarbons (diesel fraction NWTPHDx) <=10 mg/L.

Samson and Duwamish Marine Center have violated the requirements of the Permits described above by failing to conduct a Level One Corrective Action in accordance with permit conditions, including the required review, revision and certification of the SWPPP, the required implementation of additional BMPs, and the required summarization in the annual report each time since January 1, 2010, that quarterly stormwater sampling results were greater than a benchmark or outside the benchmark range for pH, including the benchmark excursions listed in Tables 1 and 2 in Section I.A. of this letter.

These benchmark excursions are based upon information currently available to Soundkeeper from Ecology's publicly available records. Soundkeeper provides notice of its intent to sue Samson and Duwamish Marine Center for failing to comply with all of the Level One Corrective Action requirements described above by failing to conduct a Level One Corrective Action in accordance with permit conditions, including the required review, revision and certification of the SWPPP, the required implementation of additional BMPs, and the required summarization in the annual report each time during the last five years its quarterly stormwater sampling results were greater than a benchmark or outside the benchmark range for pH, including the benchmark excursions listed in Table 1 above.



**B. Violations of the Level Two Requirements of the Permits.**

Condition S8.C of the Permits requires Samson and Duwamish Marine Center take specified actions, called a "Level Two Corrective Action," each time quarterly stormwater sample results exceed an applicable benchmark value or are outside the benchmark range for pH for any two quarters during a calendar year. Condition S8.A of the 2015 Permit requires that Samson and Duwamish Marine Center implement any Level Two Corrective Action required by the 2010 Permit.

As described by Condition S8.C of the Permits, a Level Two Corrective Action requires Samson and Duwamish Marine Center: (1) review the SWPPP for the facility and ensure that it fully complies with Condition S3 of the 2010 Permit; (2) make appropriate revisions to the SWPPP to include additional structural source control BMPs with the goal of achieving the applicable benchmark value(s) in future discharges and sign and certify the revised SWPPP in accordance with Condition S3 of the Permits; and (3) summarize the Level Two Corrective Action (planned or taken) in the Annual Report required under Condition S9.B of the Permits. Condition S8.C.4 of the Permits requires that Samson and Duwamish Marine Center implement the revised SWPPP according to Condition S3 of the Permits and the applicable stormwater management manual as soon as possible, and no later than August 31st of the following year.

The Permits establish the benchmarks applicable to Samson and Duwamish Marine Center described in Section IV.A of this notice of intent to sue letter.

Samson and Duwamish Marine Center have violated the requirements of the Permits described above by failing to conduct a Level Two Corrective Action in accordance with permit conditions, including the required review, revision and certification of the SWPPP, the required implementation of additional BMPs to ensure that all points of discharge from the facility meet benchmarks (not just the sampled point of discharge), including additional structural source control BMPs, and the required summarization in the annual report each time during the last five years its quarterly stormwater sampling results were greater than a benchmark or outside the benchmark range for pH for any two quarters during a calendar year. As indicated in Table 1 in Section I.A of this letter, these violations include, but are not limited to, Samson and Duwamish Marine Center's failure to fulfill these obligations for turbidity, zinc, and copper triggered by its stormwater sampling during the calendar year of 2010 and every year since.

The benchmark excursions identified in Table 1 of this notice of intent to sue letter are based upon information currently available to Soundkeeper from Ecology's publicly available records. Soundkeeper provides notice of its intent to sue Samson and Duwamish Marine Center for failing to comply with all of the Level Two Corrective Action requirements each and every time quarterly stormwater sample results exceeded an applicable benchmark value or were outside the benchmark range for pH for any two quarters during a calendar year, including any such excursions that are not reflected in Table 1 above, during the last five years.

**C. Violations of the Level Three Requirements of the Permits.**

Condition S8.D of the Permits requires Samson and Duwamish Marine Center take specified actions, called a "Level Three Corrective Action," each time quarterly stormwater sample results exceed an applicable benchmark value or are outside the benchmark range for pH for any three quarters during a calendar year. Condition S8.A of the 2015 Permit requires that Samson and Duwamish Marine Center implement any Level Three Corrective Action required by the 2010 Permit.

As described by Condition S8.D of the 2010 Permit, a Level Three Corrective Action requires that Samson and Duwamish Marine Center: (1) review the SWPPP for the facility and ensure that it fully complies with Condition S3 of the 2010 Permit; (2) make appropriate revisions to the SWPPP to include additional treatment BMPs with the goal of achieving the applicable benchmark value(s) in future discharges and additional operational and/or structural source control BMPs if necessary for proper function and maintenance of treatment BMPs, and sign and certify the revised SWPPP in accordance with Condition S3.A.6 of the 2010 Permit; and (3) summarize the Level Three Corrective Action (planned or taken) in the Annual Report required under Condition S9.B of the 2010 Permit, including information on how monitoring, assessment, or evaluation information was (or will be) used to determine whether existing treatment BMPs will be modified/enhanced, or if new/additional treatment BMPs will be installed. Condition S8.D.2.b of the 2010 Permit requires that a licensed professional engineer, geologist, hydrogeologist, or certified professional in storm water quality must design and stamp the portion of the SWPPP that addresses stormwater treatment structures or processes.

Condition S8.D.3 of the 2010 Permit requires that, before installing BMPs that require the site-specific design or sizing of structures, equipment, or processes to collect, convey, treat, reclaim, or dispose of industrial stormwater, Samson and Duwamish Marine Center submit an engineering report, plans, and specifications, and an operations and maintenance manual to Ecology for review in accordance with chapter 173-204 of the Washington Administrative Code. The engineering report must be submitted no later than the May 15 prior to the Level Three Corrective Action Deadline. The plans and specifications and the operations and maintenance manual must be submitted to Ecology at least 30 days before construction/installation.

Condition S8.D.5 of the 2010 Permit requires that Samson and Duwamish Marine Center fully implement the revised SWPPP according to condition S3 of the 2010 Permit and the applicable stormwater management manual as soon as possible, and no later than September 30th of the following year.

The Permits establishes the benchmarks applicable to Samson and Duwamish Marine Center described in Section IV.A of this notice of intent to sue letter.

Samson and Duwamish Marine Center have violated the requirements of the Permits described above by failing to conduct a Level Three Corrective Action in accordance with permit conditions, including the required review, revision and certification of the SWPPP, including the requirement to have a specified professional design and stamp the portion of the

SWPPP pertaining to treatment, the required implementation of additional BMPs, including additional treatment BMPs to ensure that all points of discharge from the facility meet benchmarks (not just the sampled point of discharge), the required submission of an engineering report, plans, specifications, and an operations and maintenance plan, and the required summarization in the annual report each time during the last five years its quarterly stormwater sampling results were greater than a benchmark or outside the benchmark range for pH for any three quarters during a calendar year. As indicated in Table 1 in Section I.A of this letter, these violations include, but are not limited to, Samson and Duwamish Marine Center's failure to fulfill these obligations for turbidity, zinc, and copper triggered by its stormwater sampling during the calendar year of 2011.

The benchmark excursions identified in Table 1 of this notice of intent to sue letter are based upon information currently available to Soundkeeper from Ecology's publicly available records. Soundkeeper provides notice of its intent to sue Samson and Duwamish Marine Center for failing to comply with all of the Level Three Corrective Action requirements each and every time quarterly stormwater sample results exceeded an applicable benchmark value or were outside the benchmark range for pH for any three quarters during a calendar year, including any such excursions that are not reflected in Table 1 above, during the last five years.

## **VI. VIOLATIONS OF THE ANNUAL REPORT REQUIREMENTS.**

Condition S9.B of the Permits requires Samson and Duwamish Marine Center to submit an accurate and complete annual report to Ecology no later than May 15 of each year. The annual report must include corrective action documentation as required in Condition S8.B through S8.D. If a corrective action is not yet completed at the time of submission of the annual report, Samson and Duwamish Marine Center must describe the status of any outstanding corrective action. Specific information to be included in the annual report is identification of the conditions triggering the need for corrective action, description of the problem and identification of dates discovered, summary of any Level 1, 2, or 3 corrective actions completed during the previous calendar year, including the dates corrective actions completed, and description of the status of any Level 2 or 3 corrective actions triggered during the previous calendar year, including identification of the date Samson and Duwamish Marine Center expect to complete corrective actions. Samson and Duwamish Marine Center have violated this condition by failing to include all of the required information in the annual report it submitted for the past five years.

The annual report submitted by Samson for 2010 (submitted May 13, 2011) does not include the required information. The report describes problems and corrective actions from 2009. The annual report provides inadequate and incomplete information for the Level Three Corrective Action triggered (or ongoing) for turbidity, zinc and copper in 2010, including the description of the conditions triggering the corrective action, the BMPs (including treatment) to be implemented as part of the Level Three Corrective Action, and the implementation schedule. The annual report does not include information on how monitoring, assessment, or evaluation information was (or will be) used to determine whether existing treatment BMPs will be modified/enhanced, or if new/additional treatment BMPs will be installed as required by Condition S8.D.4.

The annual report submitted by Samson for 2011 (submitted on May 11, 2012) does not include the required information. For example, the report does not describe all of the stormwater problems identified. The report does not describe the completion or status of the Level Three corrective actions triggered for exceeding benchmarks for turbidity, zinc and copper that was to be completed in 2011, or the information required by Condition S8.D.4 of the 2010 Permit for that Level Three Corrective Action. Samson's annual 2011 report provides inadequate and incomplete information on their corrective actions for three quarters of violations of turbidity, zinc and copper benchmarks in 2011. The annual report also does not include information on how monitoring, assessment, or evaluation information was (or will be) used to determine whether existing treatment BMPs will be modified/enhanced, or if new/additional treatment BMPs will be installed as required by Condition S8.D.4.

The annual report submitted by Samson for 2012 (submitted late on May 10, 2013) does not include the required information. The report does not describe all of the stormwater problems identified. The report does not describe the completion or status of the Level Two and Level Three corrective actions triggered in prior years that was to be completed in 2011 and now states corrective actions to be completed in 2013. The report also fails to include the information required by Condition S8.D.4 of the 2010 Permit for that Level Three Corrective Action.

Samson and Duwamish Marine Center failed to submit an annual report for 2013.

Samson and Duwamish Marine Center failed to submit an annual report for 2014.

## **VII. VIOLATIONS OF THE RECORDKEEPING REQUIREMENTS.**

### **A. Failure to Record Information.**

Condition S4.B.3 of the Permits requires Samson and Duwamish Marine Center record and retain specified information for each stormwater sample taken, including the sample date and time, a notation describing if Samson and Duwamish Marine Center collected the sample within the first 30 minutes of stormwater discharge event, an explanation of why Samson and Duwamish Marine Center could not collect a sample within the first 30 minutes of a stormwater discharge event, the sample location, method of sampling and of preservation, and the individual performing the sampling. Upon information and belief, Samson and Duwamish Marine Center are in violation of these conditions as it has not recorded each of these specified items for each sample taken during the last five years.

### **B. Failure to Retain Records.**

Condition S9.C of the Permits requires Samson and Duwamish Marine Center to retain for a minimum of five years a copy of the Permits, a copy of Samson and Duwamish Marine Center's coverage letter, records of all sampling information, inspection reports including required documentation, any other documentation of compliance with permit requirements, all equipment calibration records, all BMP maintenance records, all original recordings for continuous sampling instrumentation, copies of all laboratory results, copies of

all required reports, and records of all data used to complete the application for the Permits. Upon information and belief, Samson and Duwamish Marine Center are in violation of these conditions for failing to retain records of such information, reports, and other documentation during the last five years.

### **VIII. PROHIBITED DISCHARGES.**

Condition S5.E. of the Permits prohibits illicit discharges and the discharge of process wastewater. Appendix 2 of the Permits defines "illicit discharges" to include "any *discharge* that is not composed entirely of *stormwater* except (1) discharges authorized pursuant to a separate NPDES permit, or (2) conditionally authorized non-stormwater discharge identified in Condition S5.D." Appendix 2 of the Permits defines stormwater as "that portion of precipitation that does not naturally percolate into the ground or evaporate, but flows via overland flow, interflow, pipes, and other features of a stormwater drainage system into a defined surface water body, or a constructed infiltration facility." In contrast to stormwater, Appendix 2 of the Permits defines leachate as "water or other liquid that has percolated through raw material, product, or waste and contains substances in solution or suspension as a result of the contact with these materials," and process wastewater as "any non-stormwater which, during manufacturing or processing, comes into direct contact or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product."

On information and belief, Samson and Duwamish Marine Center have violated and continues to violate these conditions due to its non-stormwater discharges from the Facility. These non-stormwater discharges from the Facility may include, but are not limited to, discharges of wash water from the wheel wash and/or other equipment washing areas.

### **IX. REQUEST FOR SWPPP.**

Pursuant to Condition S9.F of the 2015 Permit, Soundkeeper hereby requests that Duwamish Marine Center provide a copy of, or access to, its most recent SWPPP complete with all incorporated plans, monitoring reports, checklists, and training and inspection logs within 14 days. The copy of the SWPPP and any other communications about this request should be directed to the undersigned at the letterhead address.

Should Duwamish Marine Center fail to provide the requested complete copy of, or access to, its SWPPP as required by Condition S9.F of the 2015 Permit, it will be in violation of that condition, which violation shall also be subject to this Notice of Intent to Sue and any ensuing lawsuit.

### **X. CONCLUSION.**

The above-described violations reflect those indicated by the information currently available to Soundkeeper. These violations are ongoing. Soundkeeper intends to sue for all violations, including those yet to be uncovered and those committed after the date of this Notice of Intent to Sue.

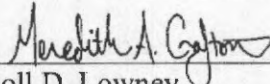


Soundkeeper believes that this NOTICE OF INTENT TO SUE sufficiently states grounds for filing suit. We intend, at the close of the 60-day notice period, or shortly thereafter, to file a citizen suit against Jacqueline H. and James D. Gilmur, the Gilmur Living Trust, and Duwamish Marine Center under Section 505(a) of the Clean Water Act for violations. During the 60-day notice period, we would be willing to discuss effective remedies for the violations addressed in this letter and settlement terms, however; we do not intend to delay the filing of a complaint or the amending of the complaint in W.D. Wash. Case No. C16-445RSL if discussions are continuing when the notice period ends. To initiate those discussions you may contact us by phone or mail (see letterhead), or by e-mail at knoll@igc.org or meredithc@igc.org.

Under Section 309(d) of the CWA, 33 U.S.C. § 1319(d), each of the above-described violations subjects the violator to a penalty of up to \$37,500 per day for each violation. In addition to civil penalties, Soundkeeper will seek injunctive relief to prevent further violations under Sections 505(a) and (d) of the CWA, 33 U.S.C. § 1365(a) and (d), and such other relief as is permitted by law. Also, Section 505(d) of the CWA, 33 USC § 1365(d), permits prevailing parties to recover costs, including attorney's fees.

Very truly yours,

SMITH & LOWNEY, PLLC

By:   
Knoll D. Lowney  
Meredith A. Crafton

cc: Gina McCarthy, Administrator, U.S. EPA  
Dennis McLerran, Region 10 Administrator, U.S. EPA  
Maia Bellon, Director, Washington Department of Ecology  
Clint Harris, 16 S Michigan St, Seattle, WA 98108  
Lori Terry Gregory, Attorney for Gilmur Hale Family Trust (via email)  
Mark M. Myers, Attorney for Samson Tug & Barge (via email)

\*Date Precip. (in) Events

Date Precip. (in) Events

Date Precip. (in) Events

| 2011 | Precip. (in) | Events     |
|------|--------------|------------|
| Jan  | sum          |            |
| 1    | 0            |            |
| 2    | 0            |            |
| 3    | 0            |            |
| 4    | 0.03         | Rain       |
| 5    | 0.11         | Rain       |
| 6    | 0.28         | Rain       |
| 7    | 0.52         | Rain       |
| 8    | 0.01         |            |
| 9    | 0.03         | Rain       |
| 10   | 0            |            |
| 11   | 0.12         | Fog, Snow  |
| 12   | 0.74         | Rain, Snow |
| 13   | 0.66         | Rain       |
| 14   | 0.08         | Rain       |
| 15   | 0.42         | Rain       |
| 16   | 0.11         | Rain       |
| 17   | 0            | Rain       |
| 18   | 0.08         | Rain       |
| 19   | 0            |            |
| 20   | 0.05         | Rain       |
| 21   | 0.68         | Rain       |
| 22   | 0            |            |
| 23   | 0.04         | Rain       |
| 24   | 0.26         | Rain       |
| 25   | 0            |            |
| 26   | 0            |            |
| 27   | 0            | Fog        |
| 28   | 0.07         | Rain       |
| 29   | 0.26         | Rain       |
| 30   | 0            |            |
| 31   | 0            |            |
| 2011 | Precip. (in) | Events     |
| Feb  | sum          |            |
| 1    | 0            | Rain       |
| 2    | 0            |            |
| 3    | 0.02         | Rain       |

| 4    | 0.06         | Rain       |
|------|--------------|------------|
| 5    | 0.09         | Rain       |
| 6    | 0.11         | Rain       |
| 7    | 0.06         | Rain       |
| 8    | 0.01         |            |
| 9    | 0            |            |
| 10   | 0            |            |
| 11   | 0            |            |
| 12   | 0.45         | Rain       |
| 13   | 0.28         | Rain       |
| 14   | 0.84         | Rain       |
| 15   | 0.15         | Rain       |
| 16   | 0.04         | Rain       |
| 17   | 0.02         | Rain       |
| 18   | 0            |            |
| 19   | 0            |            |
| 20   | 0            |            |
| 21   | 0.06         |            |
| 22   | 0.2          | Rain, Snow |
| 23   | 0.08         | Fog, Snow  |
| 24   | 0.01         | Snow       |
| 25   | 0            |            |
| 26   | 0            | Snow       |
| 27   | 0.51         | Rain       |
| 28   | 0.22         | Rain       |
| 2011 | Precip. (in) | Events     |
| Mar  | sum          |            |
| 1    | 0.22         | Rain       |
| 2    | 0.14         | Rain       |
| 3    | 0.35         | Rain       |
| 4    | 0.12         | Rain       |
| 5    | 0            | Rain       |
| 6    | 0            |            |
| 7    | 0            | Rain       |
| 8    | 0.1          | Rain       |
| 9    | 1.47         | Rain       |
| 10   | 0.41         | Rain       |
| 11   | 0            |            |
| 12   | 0.47         | Rain       |

| 13   | 0.65         | Rain               |
|------|--------------|--------------------|
| 14   | 0.3          | Rain               |
| 15   | 0.43         | Rain, Thunderstorm |
| 16   | 0.22         | Rain               |
| 17   | 0            |                    |
| 18   | 0.18         | Rain               |
| 19   | 0            |                    |
| 20   | 0.01         | Rain               |
| 21   | 0.01         | Rain               |
| 22   | 0            |                    |
| 23   | 0            |                    |
| 24   | 0.04         | Rain               |
| 25   | 0.11         | Rain               |
| 26   | 0.08         | Fog, Rain          |
| 27   | 0.19         | Rain               |
| 28   | 0.11         | Rain               |
| 29   | 0.13         | Rain               |
| 30   | 0.09         | Rain               |
| 31   | 0.11         | Rain               |
| 2011 | Precip. (in) | Events             |
| Apr  | sum          |                    |
| 1    | 0.85         | Rain               |
| 2    | 0.25         | Rain               |
| 3    | 0.07         | Rain               |
| 4    | 0.12         | Rain               |
| 5    | 0.15         | Rain               |
| 6    | 0.1          | Rain               |
| 7    | 0.09         | Rain               |
| 8    | 0            |                    |
| 9    | 0            |                    |
| 10   | 0.09         | Rain               |
| 11   | 0.04         | Rain               |
| 12   | 0            |                    |
| 13   | 0.07         | Rain               |
| 14   | 0.39         | Rain               |
| 15   | 0.02         | Rain               |
| 16   | 0.15         | Rain               |

| Date        | Precip. (in)        | Events        |
|-------------|---------------------|---------------|
| 17          | 0                   |               |
| 18          | 0.02                |               |
| 19          | 0                   |               |
| 20          | 0                   |               |
| 21          | 0.04                | Rain          |
| 22          | 0                   |               |
| 23          | 0                   |               |
| 24          | 0.05                | Rain          |
| 25          | 0.45                | Rain          |
| 26          | 0.03                | Rain          |
| 27          | 0.44                | Rain          |
| 28          | 0.04                | Rain          |
| 29          | 0.04                | Rain          |
| 30          | 0.17                | Rain          |
| <b>2011</b> | <b>Precip. (in)</b> | <b>Events</b> |
| May         | sum                 |               |
| 1           | 0                   |               |
| 2           | 0.22                | Rain          |
| 3           | 0                   | Rain          |
| 4           | 0                   |               |
| 5           | 0.04                | Rain          |
| 6           | 0.12                | Rain          |
| 7           | 0.04                | Rain          |
| 8           | 0.17                | Rain          |
| 9           | 0                   |               |
| 10          | 0                   |               |
| 11          | 0.51                | Rain          |
| 12          | 0                   |               |
| 13          | 0                   |               |
| 14          | 0.52                | Rain          |
| 15          | 0.69                | Rain          |
| 16          | 0                   |               |
| 17          | 0                   | Fog           |
| 18          | 0                   |               |
| 19          | 0                   |               |
| 20          | 0                   |               |
| 21          | 0.1                 | Rain          |
| 22          | 0                   | Rain          |
| 23          | 0                   |               |
| 24          | 0                   |               |

| Date        | Precip. (in)        | Events        |
|-------------|---------------------|---------------|
| 25          | 0.24                | Rain          |
| 26          | 0.04                | Rain          |
| 27          | 0.09                | Rain          |
| 28          | 0                   | Rain          |
| 29          | 0                   |               |
| 30          | 0                   |               |
| 31          | 0.06                | Rain          |
| <b>2011</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Jun         | sum                 |               |
| 1           | 0.24                | Rain          |
| 2           | 0.25                | Rain          |
| 3           | 0                   |               |
| 4           | 0                   |               |
| 5           | 0                   |               |
| 6           | 0                   |               |
| 7           | 0.1                 | Rain          |
| 8           | 0                   | Rain          |
| 9           | 0                   |               |
| 10          | 0                   |               |
| 11          | 0                   |               |
| 12          | 0                   | Rain          |
| 13          | 0.03                | Rain          |
| 14          | 0                   |               |
| 15          | 0.11                | Rain          |
| 16          | 0                   |               |
| 17          | 0                   |               |
| 18          | 0.3                 | Rain          |
| 19          | 0.03                | Rain          |
| 20          | 0                   | Rain          |
| 21          | 0                   |               |
| 22          | 0                   |               |
| 23          | 0.01                | Rain          |
| 24          | 0.12                | Rain          |
| 25          | 0                   |               |
| 26          | 0                   |               |
| 27          | 0                   | Rain          |
| 28          | 0                   |               |
| 29          | 0                   |               |
| 30          | 0                   |               |

| Date        | Precip. (in)        | Events        |
|-------------|---------------------|---------------|
| <b>2011</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Jul         | sum                 |               |
| 1           | 0                   |               |
| 2           | 0                   |               |
| 3           | 0                   | Rain          |
| 4           | 0                   |               |
| 5           | 0                   |               |
| 6           | 0                   |               |
| 7           | 0.01                | Rain          |
| 8           | 0                   |               |
| 9           | 0                   |               |
| 10          | 0                   |               |
| 11          | 0                   | Rain          |
| 12          | 0.09                | Rain          |
| 13          | 0.01                |               |
| 14          | 0                   | Rain          |
| 15          | 0.04                | Rain          |
| 16          | 0.33                | Rain          |
| 17          | 0.06                | Rain          |
| 18          | 0                   |               |
| 19          | 0                   |               |
| 20          | 0                   |               |
| 21          | 0                   |               |
| 22          | 0                   |               |
| 23          | 0                   |               |
| 24          | 0                   |               |
| 25          | 0.27                | Rain          |
| 26          | 0                   |               |
| 27          | 0                   | Rain          |
| 28          | 0                   |               |
| 29          | 0                   |               |
| 30          | 0                   |               |
| 31          | 0                   |               |
| <b>2011</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Aug         | sum                 |               |
| 1           | 0                   |               |
| 2           | 0                   |               |
| 3           | 0                   |               |
| 4           | 0                   |               |



\* Date Precip. (in) Events

|             |                     |               |
|-------------|---------------------|---------------|
| 5           | 0                   |               |
| 6           | 0                   |               |
| 7           | 0                   |               |
| 8           | 0                   |               |
| 9           | 0                   |               |
| 10          | 0                   |               |
| 11          | 0                   |               |
| 12          | 0                   | Rain          |
| 13          | 0                   |               |
| 14          | 0                   |               |
| 15          | 0                   |               |
| 16          | 0                   |               |
| 17          | 0                   |               |
| 18          | 0                   |               |
| 19          | 0                   |               |
| 20          | 0                   |               |
| 21          | 0                   |               |
| 22          | 0.08                | Rain          |
| 23          | 0                   |               |
| 24          | 0                   |               |
| 25          | 0                   |               |
| 26          | 0                   |               |
| 27          | 0                   |               |
| 28          | 0                   |               |
| 29          | 0                   |               |
| 30          | 0                   | Rain          |
| 31          | 0                   |               |
| <b>2011</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Sep         | sum                 |               |
| 1           | 0                   |               |
| 2           | 0                   |               |
| 3           | 0                   |               |
| 4           | 0                   |               |
| 5           | 0                   |               |
| 6           | 0                   |               |
| 7           | 0                   |               |
| 8           | 0                   |               |
| 9           | 0                   |               |
| 10          | 0                   |               |
| 11          | 0                   |               |

Date Precip. (in) Events

|             |                     |               |
|-------------|---------------------|---------------|
| 12          | 0                   |               |
| 13          | 0                   |               |
| 14          | 0                   |               |
| 15          | 0                   |               |
| 16          | 0                   |               |
| 17          | 0.21                | Rain          |
| 18          | 0.13                | Rain          |
| 19          | 0.06                | Rain          |
| 20          | 0                   |               |
| 21          | 0                   |               |
| 22          | 0                   |               |
| 23          | 0                   |               |
| 24          | 0                   |               |
| 25          | 0.22                | Rain          |
| 26          | 0.32                | Rain          |
| 27          | 0.04                | Rain          |
| 28          | 0.01                |               |
| 29          | 0                   |               |
| 30          | 0.02                |               |
| <b>2011</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Oct         | sum                 |               |
| 1           | 0                   |               |
| 2           | 0.14                | Rain          |
| 3           | 0.09                | Rain          |
| 4           | 0.02                | Rain          |
| 5           | 0.1                 | Rain          |
| 6           | 0.19                | Rain          |
| 7           | 0.05                | Rain          |
| 8           | 0.01                | Rain          |
| 9           | 0.06                | Rain          |
| 10          | 0.18                | Rain          |
| 11          | 0.57                | Rain          |
| 12          | 0.01                | Rain          |
| 13          | 0                   |               |
| 14          | 0.01                |               |
| 15          | 0                   |               |
| 16          | 0                   |               |
| 17          | 0                   |               |
| 18          | 0                   |               |

Date Precip. (in) Events

|             |                     |               |
|-------------|---------------------|---------------|
| 19          | 0                   | Rain          |
| 20          | 0                   |               |
| 21          | 0.03                | Rain          |
| 22          | 0.28                | Rain          |
| 23          | 0                   |               |
| 24          | 0.02                | Rain          |
| 25          | 0                   | Fog           |
| 26          | 0.01                | Rain          |
| 27          | 0                   | Fog           |
| 28          | 0.38                | Rain          |
| 29          | 0                   |               |
| 30          | 0.14                | Rain          |
| 31          | 0                   |               |
| <b>2011</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Nov         | sum                 |               |
| 1           | 0                   |               |
| 2           | 0.42                | Fog, Rain     |
| 3           | 0                   |               |
| 4           | 0.06                | Rain          |
| 5           | 0                   |               |
| 6           | 0                   | Fog           |
| 7           | 0.01                | Rain          |
| 8           | 0                   |               |
| 9           | 0                   | Rain          |
| 10          | 0                   |               |
| 11          | 0.3                 | Rain          |
| 12          | 0.15                | Rain          |
| 13          | 0.09                | Rain          |
| 14          | 0                   |               |
| 15          | 0                   |               |
| 16          | 0.38                | Rain          |
| 17          | 0.1                 | Rain          |
| 18          | 0.01                | Rain          |
| 19          | 0                   |               |
| 20          | 0                   |               |
| 21          | 0.42                | Rain          |
| 22          | 1.58                | Rain          |
| 23          | 1                   | Rain          |
| 24          | 0.35                | Rain          |

| Date | Precip. (in) | Events | Date | Precip. (in) | Events          | Date | Precip. (in) | Events     |
|------|--------------|--------|------|--------------|-----------------|------|--------------|------------|
| 25   | 0            |        | 2012 | Precip. (in) | Events          | 3    | 0            |            |
| 26   | 0.03         | Rain   | Jan  | sum          |                 | 4    | 0            |            |
| 27   | 0.33         | Rain   | 1    | 0            |                 | 5    | 0            |            |
| 28   | 0            | Rain   | 2    | 0.48         | Rain            | 6    | 0            |            |
| 29   | 0.05         | Rain   | 3    | 0.03         | Rain            | 7    | 0            | Rain       |
| 30   | 0            |        | 4    | 0.65         | Rain            | 8    | 0.1          | Rain       |
| 2011 | Precip. (in) | Events | 5    | 0.08         | Rain            | 9    | 0.11         | Rain       |
| Dec  | sum          |        | 6    | 0.04         | Rain            | 10   | 0.09         | Rain       |
| 1    | 0            | Fog    | 7    | 0            | Rain            | 11   | 0            |            |
| 2    | 0            | Rain   | 8    | 0            |                 | 12   | 0.04         | Rain       |
| 3    | 0            |        | 9    | 0.17         | Rain            | 13   | 0.44         | Rain       |
| 4    | 0            |        | 10   | 0.06         | Rain            | 14   | 0.04         | Rain       |
| 5    | 0            | Fog    | 11   | 0            |                 | 15   | 0            |            |
| 6    | 0            | Fog    | 12   | 0            |                 | 16   | 0.04         | Rain       |
| 7    | 0            |        | 13   | 0            |                 | 17   | 0.4          | Rain       |
| 8    | 0            |        | 14   | 0.13         | Rain            | 18   | 0.18         | Rain       |
| 9    | 0            |        | 15   | 0.23         | Fog, Snow       | 19   | 0            |            |
| 10   | 0.01         | Rain   | 16   | 0.07         | Rain, Snow      | 20   | 0            | Rain       |
| 11   | 0.05         | Rain   | 17   | 0.09         | Rain            | 21   | 0            | Rain       |
| 12   | 0            | Fog    | 18   | 0.44         | Fog, Rain, Snow | 22   | 0.22         | Rain       |
| 13   | 0            | Fog    | 19   | 0.32         | Rain, Snow      | 23   | 0            |            |
| 14   | 0.01         | Rain   | 20   | 0.39         | Rain            | 24   | 0.49         | Rain       |
| 15   | 0.03         | Rain   | 21   | 0.06         | Rain            | 25   | 0.01         |            |
| 16   | 0            |        | 22   | 0.29         | Rain            | 26   | 0            |            |
| 17   | 0            | Fog    | 23   | 0            |                 | 27   | 0            |            |
| 18   | 0.08         | Rain   | 24   | 0.24         | Rain            | 28   | 0.18         | Rain, Snow |
| 19   | 0            | Fog    | 25   | 0.4          | Rain            | 29   | 0.08         | Rain, Snow |
| 20   | 0            |        | 26   | 0.31         | Rain            | 2012 | Precip. (in) | Events     |
| 21   | 0            | Fog    | 27   | 0            |                 | Mar  | sum          |            |
| 22   | 0            | Fog    | 28   | 0            |                 | 1    | 0            |            |
| 23   | 0.01         | Rain   | 29   | 0.67         | Rain            | 2    | 0.04         | Rain       |
| 24   | 0.01         | Rain   | 30   | 0.11         | Rain            | 3    | 0            |            |
| 25   | 0.04         | Rain   | 31   | 0.04         | Rain            | 4    | 0            |            |
| 26   | 0.03         | Rain   | 2012 | Precip. (in) | Events          | 5    | 0.36         | Rain       |
| 27   | 0.03         | Rain   | Feb  | sum          |                 | 6    | 0.05         | Snow       |
| 28   | 0.47         | Rain   | 1    | 0.45         | Rain            | 7    | 0            |            |
| 29   | 0.21         | Rain   | 2    | 0            |                 | 8    | 0            |            |
| 30   | 0.02         | Rain   |      |              |                 | 9    | 0.17         | Rain       |
| 31   | 0            |        |      |              |                 |      |              |            |

| Date        | Precip. (in)        | Events        |
|-------------|---------------------|---------------|
| 10          | 0.46                | Rain          |
| 11          | 0.31                | Rain          |
| 12          | 0.66                | Rain          |
| 13          | 0.23                | Rain, Snow    |
| 14          | 0.44                | Rain          |
| 15          | 1.07                | Rain          |
| 16          | 0.19                | Rain          |
| 17          | 0.44                | Rain, Snow    |
| 18          | 0.08                | Rain          |
| 19          | 0.03                | Rain          |
| 20          | 0.12                | Rain          |
| 21          | 0                   | Rain          |
| 22          | 0.16                | Rain          |
| 23          | 0                   |               |
| 24          | 0                   |               |
| 25          | 0                   |               |
| 26          | 0                   |               |
| 27          | 0.21                | Rain          |
| 28          | 0.15                | Rain          |
| 29          | 1.15                | Rain          |
| 30          | 0.08                | Rain          |
| 31          | 0                   | Rain          |
| <b>2012</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Apr         | sum                 |               |
| 1           | 0                   | Rain          |
| 2           | 0                   |               |
| 3           | 0                   | Rain          |
| 4           | 0                   |               |
| 5           | 0                   | Rain          |
| 6           | 0                   |               |
| 7           | 0                   |               |
| 8           | 0                   |               |
| 9           | 0                   |               |
| 10          | 0                   | Rain          |
| 11          | 0.08                | Rain          |
| 12          | 0                   |               |

| Date        | Precip. (in)        | Events        |
|-------------|---------------------|---------------|
| 13          | 0                   |               |
| 14          | 0                   |               |
| 15          | 0                   |               |
| 16          | 0.24                | Rain          |
| 17          | 0.07                | Rain          |
| 18          | 0.09                | Rain          |
| 19          | 0.28                | Rain          |
| 20          | 0.26                | Rain          |
| 21          | 0                   |               |
| 22          | 0                   |               |
| 23          | 0                   |               |
| 24          | 0.03                | Rain          |
| 25          | 0.41                | Rain          |
| 26          | 0.16                | Rain          |
| 27          | 0.01                | Rain          |
| 28          | 0                   | Rain          |
| 29          | 0.08                | Rain          |
| 30          | 0.26                | Rain          |
| <b>2012</b> | <b>Precip. (in)</b> | <b>Events</b> |
| May         | sum                 |               |
| 1           | 0.05                | Rain          |
| 2           | 0                   |               |
| 3           | 0.78                | Rain          |
| 4           | 0.32                | Rain          |
| 5           | 0                   |               |
| 6           | 0                   |               |
| 7           | 0                   |               |
| 8           | 0                   |               |
| 9           | 0.01                | Rain          |
| 10          | 0                   |               |
| 11          | 0                   |               |
| 12          | 0                   |               |
| 13          | 0                   |               |
| 14          | 0                   |               |
| 15          | 0                   |               |
| 16          | 0                   |               |
| 17          | 0.47                | Rain          |
| 18          | 0                   |               |
| 19          | 0                   |               |
| 20          | 0.16                | Rain          |

| Date        | Precip. (in)        | Events             |
|-------------|---------------------|--------------------|
| 21          | 0.41                | Rain               |
| 22          | 0.12                | Rain               |
| 23          | 0.02                | Rain               |
| 24          | 0.01                | Rain               |
| 25          | 0.05                |                    |
| 26          | 0                   |                    |
| 27          | 0                   |                    |
| 28          | 0                   |                    |
| 29          | 0                   |                    |
| 30          | 0.02                | Rain               |
| 31          | 0.15                | Rain               |
| <b>2012</b> | <b>Precip. (in)</b> | <b>Events</b>      |
| Jun         | sum                 |                    |
| 1           | 0.1                 | Rain               |
| 2           | 0.02                | Rain               |
| 3           | 0                   |                    |
| 4           | 0.03                | Rain               |
| 5           | 0.49                | Rain               |
| 6           | 0                   |                    |
| 7           | 0.54                | Rain               |
| 8           | 0.05                | Rain, Thunderstorm |
| 9           | 0.02                |                    |
| 10          | 0                   |                    |
| 11          | 0                   |                    |
| 12          | 0.03                | Rain               |
| 13          | 0                   |                    |
| 14          | 0                   |                    |
| 15          | 0                   |                    |
| 16          | 0                   | Rain               |
| 17          | 0                   |                    |
| 18          | 0.21                | Rain               |
| 19          | 0.03                | Rain               |
| 20          | 0                   |                    |
| 21          | 0                   |                    |
| 22          | 0.31                | Rain               |
| 23          | 0.6                 | Rain               |
| 24          | 0.01                |                    |
| 25          | 0                   | Rain               |
| 26          | 0.01                | Rain               |

| Date | Precip. (in) | Events             | Date | Precip. (in) | Events | Date | Precip. (in) | Events |
|------|--------------|--------------------|------|--------------|--------|------|--------------|--------|
| 27   | 0            |                    | Aug  | sum          |        | 7    | 0            |        |
| 28   | 0            | Rain               | 1    | 0            |        | 8    | 0            |        |
| 29   | 0            | Rain               | 2    | 0            |        | 9    | 0            |        |
| 30   | 0            | Rain               | 3    | 0            |        | 10   | 0.02         | Rain   |
| 2012 | Precip. (in) | Events             | 4    | 0            |        | 11   | 0            |        |
| Jul  | sum          |                    | 5    | 0            |        | 12   | 0            |        |
| 1    | 0            | Rain               | 6    | 0            |        | 13   | 0            |        |
| 2    | 0            | Rain               | 7    | 0            |        | 14   | 0            |        |
| 3    | 0            | Rain               | 8    | 0            |        | 15   | 0            |        |
| 4    | 0            |                    | 9    | 0            |        | 16   | 0            |        |
| 5    | 0            |                    | 10   | 0            |        | 17   | 0            |        |
| 6    | 0            |                    | 11   | 0            |        | 18   | 0            |        |
| 7    | 0            |                    | 12   | 0            |        | 19   | 0            |        |
| 8    | 0            |                    | 13   | 0            |        | 20   | 0            | Fog    |
| 9    | 0            |                    | 14   | 0            |        | 21   | 0            |        |
| 10   | 0            |                    | 15   | 0            |        | 22   | 0.02         | Rain   |
| 11   | 0            |                    | 16   | 0            |        | 23   | 0            |        |
| 12   | 0            |                    | 17   | 0            |        | 24   | 0            |        |
| 13   | 0            | Thunderstorm       | 18   | 0            |        | 25   | 0            |        |
| 14   | 0            |                    | 19   | 0            |        | 26   | 0            |        |
| 15   | 0            |                    | 20   | 0            |        | 27   | 0            |        |
| 16   | 0            |                    | 21   | 0            |        | 28   | 0            |        |
| 17   | 0            | Rain               | 22   | 0            |        | 29   | 0            | Rain   |
| 18   | 0            |                    | 23   | 0            |        | 30   | 0            |        |
| 19   | 0            |                    | 24   | 0            |        | 2012 | Precip. (in) | Events |
| 20   | 0.61         | Rain, Thunderstorm | 25   | 0            |        | Oct  | sum          |        |
| 21   | 0            |                    | 26   | 0            |        | 1    | 0            |        |
| 22   | 0            | Rain               | 27   | 0            |        | 2    | 0            |        |
| 23   | 0            |                    | 28   | 0            |        | 3    | 0            |        |
| 24   | 0            |                    | 29   | 0            |        | 4    | 0            |        |
| 25   | 0            |                    | 30   | 0            |        | 5    | 0            |        |
| 26   | 0            |                    | 31   | 0            |        | 6    | 0            |        |
| 27   | 0            |                    | 2012 | Precip. (in) | Events | 7    | 0            |        |
| 28   | 0            |                    | Sep  | sum          |        | 8    | 0            |        |
| 29   | 0            |                    | 1    | 0            |        | 9    | 0            |        |
| 30   | 0            |                    | 2    | 0            |        | 10   | 0            |        |
| 31   | 0            |                    | 3    | 0            |        | 11   | 0            |        |
| 2012 | Precip. (in) | Events             | 4    | 0            |        | 12   | 0.09         | Rain   |
|      |              |                    | 5    | 0            |        | 13   | 0.09         | Rain   |
|      |              |                    | 6    | 0            |        | 14   | 0.52         | Rain   |

| Date | Precip. (in) | Events             | Date | Precip. (in) | Events     | Date | Precip. (in) | Events    |
|------|--------------|--------------------|------|--------------|------------|------|--------------|-----------|
| 15   | 0.22         | Rain               | 20   | 0.22         | Rain       | 28   | 0            | Rain      |
| 16   | 0            |                    | 21   | 0.52         | Rain       | 29   | 0.06         | Rain      |
| 17   | 0            |                    | 22   | 0.02         | Rain       | 30   | 0            | Fog       |
| 18   | 0.64         | Rain               | 23   | 0.95         | Rain       | 31   | 0            |           |
| 19   | 0.1          | Rain               | 24   | 0            | Rain       | 2013 | Precip. (in) | Events    |
| 20   | 0.18         | Rain, Thunderstorm | 25   | 0            | Fog        | Jan  | sum          |           |
| 21   | 0.14         | Rain               | 26   | 0            |            | 1    | 0            |           |
| 22   | 0.26         | Rain               | 27   | 0            |            | 2    | 0            |           |
| 23   | 0            | Rain               | 28   | 0.12         | Rain       | 3    | 0.18         | Rain      |
| 24   | 0.19         | Rain               | 29   | 0.11         | Rain       | 4    | 0.07         | Rain      |
| 25   | 0            |                    | 30   | 1.51         | Rain       | 5    | 0.1          | Rain      |
| 26   | 0.06         | Rain               | 2012 | Precip. (in) | Events     | 6    | 0.03         | Rain      |
| 27   | 0.75         | Rain               | Dec  | sum          |            | 7    | 0.02         | Rain      |
| 28   | 0.26         | Rain               | 1    | 0.28         | Rain       | 8    | 0.53         | Rain      |
| 29   | 0.57         | Rain               | 2    | 1            | Rain       | 9    | 1.15         | Rain      |
| 30   | 1.2          | Rain               | 3    | 0.41         | Rain       | 10   | 0            | Fog, Rain |
| 31   | 0.64         | Rain               | 4    | 0.46         | Rain       | 11   | 0            | Fog       |
| 2012 | Precip. (in) | Events             | 5    | 0.02         | Rain       | 12   | 0            |           |
| Nov  | sum          |                    | 6    | 0.07         | Rain       | 13   | 0            |           |
| 1    | 0.34         | Rain               | 7    | 0.14         | Rain       | 14   | 0            |           |
| 2    | 0.19         | Rain               | 8    | 0            |            | 15   | 0            |           |
| 3    | 0.02         | Rain               | 9    | 0.06         | Rain       | 16   | 0            | Fog       |
| 4    | 0.17         | Rain               | 10   | 0            |            | 17   | 0            | Fog       |
| 5    | 0.05         | Rain               | 11   | 0.1          | Rain       | 18   | 0            | Fog       |
| 6    | 0.01         |                    | 12   | 0.28         | Rain       | 19   | 0            | Fog       |
| 7    | 0            |                    | 13   | 0.08         | Rain       | 20   | 0            | Fog       |
| 8    | 0            |                    | 14   | 0.25         | Rain       | 21   | 0            | Fog       |
| 9    | 0            |                    | 15   | 0.24         | Rain       | 22   | 0            | Fog       |
| 10   | 0            |                    | 16   | 0.92         | Rain       | 23   | 0.21         | Rain      |
| 11   | 0.55         | Rain               | 17   | 0.11         | Rain       | 24   | 0.16         | Rain      |
| 12   | 0.13         | Rain               | 18   | 0.05         | Rain, Snow | 25   | 0.09         | Rain      |
| 13   | 0.19         | Rain               | 19   | 0.99         | Rain, Snow | 26   | 0.16         | Rain      |
| 14   | 0            |                    | 20   | 0.64         | Rain       | 27   | 0.01         | Rain      |
| 15   | 0            | Fog                | 21   | 0.07         | Fog, Rain  | 28   | 0.21         | Rain      |
| 16   | 0.25         | Fog, Rain          | 22   | 0.12         | Rain       | 29   | 0.29         | Rain      |
| 17   | 0.2          | Rain               | 23   | 0.39         | Rain       | 30   | 0.06         | Rain      |
| 18   | 0.63         | Rain               | 24   | 0.08         | Rain       |      |              |           |
| 19   | 2.49         | Rain               | 25   | 0.41         | Rain       |      |              |           |
|      |              |                    | 26   | 0.25         | Rain       |      |              |           |
|      |              |                    | 27   | 0.27         | Rain       |      |              |           |



| Date        | Precip. (in)        | Events        | Date        | Precip. (in)        | Events        | Date        | Precip. (in)        | Events             |
|-------------|---------------------|---------------|-------------|---------------------|---------------|-------------|---------------------|--------------------|
| 31          | 0.08                | Rain          | 5           | 0                   |               | 11          | 0.09                | Rain               |
| <b>2013</b> | <b>Precip. (in)</b> | <b>Events</b> | 6           | 0.61                | Rain          | 12          | 0.18                | Rain               |
| Feb         | sum                 |               | 7           | 0.26                | Rain          | 13          | 0.31                | Rain               |
| 1           | 0                   |               | 8           | 0                   | Fog           | 14          | 0.06                | Rain               |
| 2           | 0                   | Fog           | 9           | 0                   | Fog           | 15          | 0                   |                    |
| 3           | 0.08                | Rain          | 10          | 0.01                | Rain          | 16          | 0.07                | Rain               |
| 4           | 0                   |               | 11          | 0.03                | Rain          | 17          | 0                   |                    |
| 5           | 0.18                | Rain          | 12          | 0.01                | Rain          | 18          | 0.18                | Rain               |
| 6           | 0.08                | Rain          | 13          | 0.15                | Rain          | 19          | 0.67                | Rain               |
| 7           | 0.09                | Rain          | 14          | 0.05                | Rain          | 20          | 0.01                | Rain               |
| 8           | 0                   |               | 15          | 0                   |               | 21          | 0.03                | Rain               |
| 9           | 0.01                | Rain          | 16          | 0.04                | Rain          | 22          | 0                   |                    |
| 10          | 0                   | Fog           | 17          | 0                   |               | 23          | 0                   |                    |
| 11          | 0.01                | Rain          | 18          | 0                   | Rain          | 24          | 0                   |                    |
| 12          | 0                   |               | 19          | 0.37                | Rain          | 25          | 0                   |                    |
| 13          | 0                   |               | 20          | 0.72                | Rain          | 26          | 0                   |                    |
| 14          | 0.03                | Rain          | 21          | 0.1                 | Rain          | 27          | 0                   | Rain               |
| 15          | 0                   |               | 22          | 0.01                | Rain          | 28          | 0.08                | Rain               |
| 16          | 0                   | Rain          | 23          | 0                   |               | 29          | 0.15                | Rain               |
| 17          | 0                   |               | 24          | 0                   |               | 30          | 0                   |                    |
| 18          | 0                   | Rain          | 25          | 0                   |               | <b>2013</b> | <b>Precip. (in)</b> | <b>Events</b>      |
| 19          | 0                   |               | 26          | 0                   |               | May         | sum                 |                    |
| 20          | 0.07                | Rain          | 27          | 0.01                | Rain          | 1           | 0                   |                    |
| 21          | 0.01                | Rain          | 28          | 0.06                | Rain          | 2           | 0                   |                    |
| 22          | 0.34                | Rain          | 29          | 0.01                | Rain          | 3           | 0                   |                    |
| 23          | 0                   |               | 30          | 0                   |               | 4           | 0                   |                    |
| 24          | 0.02                | Rain          | 31          | 0                   |               | 5           | 0                   |                    |
| 25          | 0.14                | Rain          | <b>2013</b> | <b>Precip. (in)</b> | <b>Events</b> | 6           | 0                   |                    |
| 26          | 0.01                | Rain          | Apr         | sum                 |               | 7           | 0                   |                    |
| 27          | 0.32                | Rain          | 1           | 0                   |               | 8           | 0                   |                    |
| 28          | 0.25                | Rain          | 2           | 0                   |               | 9           | 0                   |                    |
| <b>2013</b> | <b>Precip. (in)</b> | <b>Events</b> | 3           | 0                   |               | 10          | 0                   |                    |
| Mar         | sum                 |               | 4           | 0.41                | Rain          | 11          | 0                   |                    |
| 1           | 0.04                | Rain          | 5           | 0.44                | Rain          | 12          | 0.08                | Rain               |
| 2           | 0.21                | Rain          | 6           | 0.44                | Rain          | 13          | 0.11                | Rain, Thunderstorm |
| 3           | 0                   |               | 7           | 0.96                | Rain          | 14          | 0                   |                    |
| 4           | 0                   |               | 8           | 0.04                | Rain          | 15          | 0.03                | Rain               |
|             |                     |               | 9           | 0                   |               | 16          | 0                   | Rain               |
|             |                     |               | 10          | 0.15                | Rain          | 17          | 0.02                | Rain               |
|             |                     |               |             |                     |               | 18          | 0                   |                    |

| Date        | Precip. (in)            | Events        | Date        | Precip. (in)            | Events                | Date        | Precip. (in)            | Events                |
|-------------|-------------------------|---------------|-------------|-------------------------|-----------------------|-------------|-------------------------|-----------------------|
| 19          | 0                       |               | 24          | 0.01                    | Rain                  | 28          | 0                       |                       |
| 20          | 0                       |               | 25          | 0.01                    | Rain,<br>Thunderstorm | 29          | 0                       |                       |
| 21          | 0.39                    | Rain          | 26          | 0.56                    | Rain                  | 30          | 0                       |                       |
| 22          | 0.21                    | Rain          | 27          | 0.13                    | Rain                  | 31          | 0                       | Thunderstorm          |
| 23          | 0.08                    | Rain          | 28          | 0                       |                       | <b>2013</b> | <b>Precip.<br/>(in)</b> | <b>Events</b>         |
| 24          | 0.02                    | Rain          | 29          | 0                       |                       | Aug         | sum                     |                       |
| 25          | 0                       | Rain          | 30          | 0                       |                       | 1           | 0                       |                       |
| 26          | 0.08                    | Rain          | <b>2013</b> | <b>Precip.<br/>(in)</b> | <b>Events</b>         | 2           | 0                       | Rain                  |
| 27          | 0.2                     | Rain          | Jul         | sum                     |                       | 3           | 0                       |                       |
| 28          | 0.01                    | Rain          | 1           | 0                       |                       | 4           | 0                       |                       |
| 29          | 0.17                    | Rain          | 2           | 0                       |                       | 5           | 0                       |                       |
| 30          | 0                       |               | 3           | 0                       |                       | 6           | 0                       |                       |
| 31          | 0                       |               | 4           | 0                       |                       | 7           | 0                       |                       |
| <b>2013</b> | <b>Precip.<br/>(in)</b> | <b>Events</b> | 5           | 0                       |                       | 8           | 0                       |                       |
| Jun         | sum                     |               | 6           | 0                       |                       | 9           | 0                       |                       |
| 1           | 0                       |               | 7           | 0                       |                       | 10          | 0                       | Rain,<br>Thunderstorm |
| 2           | 0                       | Rain          | 8           | 0                       |                       | 11          | 0                       |                       |
| 3           | 0                       |               | 9           | 0                       |                       | 12          | 0                       |                       |
| 4           | 0                       |               | 10          | 0                       |                       | 13          | 0                       |                       |
| 5           | 0                       |               | 11          | 0                       |                       | 14          | 0                       | Rain                  |
| 6           | 0                       |               | 12          | 0                       |                       | 15          | 0                       | Rain                  |
| 7           | 0                       |               | 13          | 0                       |                       | 16          | 0                       |                       |
| 8           | 0                       |               | 14          | 0                       |                       | 17          | 0                       |                       |
| 9           | 0                       |               | 15          | 0                       |                       | 18          | 0                       |                       |
| 10          | 0                       |               | 16          | 0                       | Rain                  | 19          | 0                       |                       |
| 11          | 0                       | Rain          | 17          | 0                       | Rain                  | 20          | 0                       |                       |
| 12          | 0                       |               | 18          | 0                       |                       | 21          | 0                       |                       |
| 13          | 0                       |               | 19          | 0                       |                       | 22          | 0                       |                       |
| 14          | 0                       |               | 20          | 0                       |                       | 23          | 0                       |                       |
| 15          | 0                       |               | 21          | 0                       |                       | 24          | 0                       |                       |
| 16          | 0                       |               | 22          | 0                       |                       | 25          | 0                       |                       |
| 17          | 0                       |               | 23          | 0                       |                       | 26          | 0                       | Rain                  |
| 18          | 0                       |               | 24          | 0                       |                       | 27          | 0                       | Rain                  |
| 19          | 0                       | Rain          | 25          | 0                       |                       | 28          | 0                       | Rain                  |
| 20          | 0                       | Rain          | 26          | 0                       |                       | 29          | 0.38                    | Rain,<br>Thunderstorm |
| 21          | 0.01                    | Rain          | 27          | 0                       |                       | 30          | 0                       |                       |
| 22          | 0                       |               |             |                         |                       | 31          | 0                       |                       |
| 23          | 0                       | Rain          |             |                         |                       | <b>2013</b> | <b>Precip.<br/>(in)</b> | <b>Events</b>         |

Date Precip. (in) Events

|      |                 |                       |
|------|-----------------|-----------------------|
| Sep  | sum             |                       |
| 1    | 0               |                       |
| 2    | 0               |                       |
| 3    | 0.12            | Rain                  |
| 4    | 0               | Rain                  |
| 5    | 0.46            | Rain,<br>Thunderstorm |
| 6    | 1.08            | Rain                  |
| 7    | 0               | Rain                  |
| 8    | 0.01            |                       |
| 9    | 0               |                       |
| 10   | 0               |                       |
| 11   | 0               |                       |
| 12   | 0               |                       |
| 13   | 0               |                       |
| 14   | 0               |                       |
| 15   | 0.21            | Rain,<br>Thunderstorm |
| 16   | 0               |                       |
| 17   | 0               |                       |
| 18   | 0               |                       |
| 19   | 0               |                       |
| 20   | 0.15            | Rain                  |
| 21   | 0.01            |                       |
| 22   | 0.37            | Rain                  |
| 23   | 0.08            | Rain                  |
| 24   | 0.01            |                       |
| 25   | 0.04            | Rain                  |
| 26   | 0.01            | Fog                   |
| 27   | 0.05            | Rain                  |
| 28   | 1.21            | Rain                  |
| 29   | 0.62            | Rain                  |
| 30   | 0.63            | Rain                  |
| 2013 | Precip.<br>(in) | Events                |
| Oct  | sum             |                       |
| 1    | 0.08            | Rain                  |
| 2    | 0.19            | Rain                  |
| 3    | 0.02            | Rain                  |
| 4    | 0.01            | Fog                   |
| 5    | 0               | Fog                   |
| 6    | 0.04            | Rain                  |

Date Precip. (in) Events

|      |                 |                       |
|------|-----------------|-----------------------|
| 7    | 0.1             | Rain                  |
| 8    | 0.39            | Rain,<br>Thunderstorm |
| 9    | 0               |                       |
| 10   | 0.03            | Rain                  |
| 11   | 0.53            | Rain                  |
| 12   | 0.06            | Rain                  |
| 13   | 0               |                       |
| 14   | 0.01            | Fog                   |
| 15   | 0               | Fog                   |
| 16   | 0               |                       |
| 17   | 0.01            |                       |
| 18   | 0               | Fog                   |
| 19   | 0               | Fog                   |
| 20   | 0               |                       |
| 21   | 0               |                       |
| 22   | 0               | Fog                   |
| 23   | 0.01            | Fog                   |
| 24   | 0.01            | Fog                   |
| 25   | 0               |                       |
| 26   | 0.01            | Fog                   |
| 27   | 0.06            | Rain                  |
| 28   | 0               |                       |
| 29   | 0               |                       |
| 30   | 0.01            | Rain                  |
| 31   | 0.01            | Rain                  |
| 2013 | Precip.<br>(in) | Events                |
| Nov  | sum             |                       |
| 1    | 0               | Rain                  |
| 2    | 0.38            | Rain                  |
| 3    | 0.02            | Rain                  |
| 4    | 0.01            | Rain                  |
| 5    | 0.05            | Rain                  |
| 6    | 0.09            | Rain                  |
| 7    | 0.94            | Rain                  |
| 8    | 0               |                       |
| 9    | 0.09            | Rain                  |
| 10   | 0               | Rain                  |

Date Precip. (in) Events

|      |                 |           |
|------|-----------------|-----------|
| 11   | 0               |           |
| 12   | 0.14            | Rain      |
| 13   | 0               |           |
| 14   | 0.01            | Rain      |
| 15   | 0.08            | Rain      |
| 16   | 0               |           |
| 17   | 0.05            | Rain      |
| 18   | 0.8             | Rain      |
| 19   | 0.11            | Rain      |
| 20   | 0               |           |
| 21   | 0               |           |
| 22   | 0               |           |
| 23   | 0.08            |           |
| 24   | 0               |           |
| 25   | 0               | Fog       |
| 26   | 0               | Fog, Rain |
| 27   | 0               |           |
| 28   | 0               | Fog       |
| 29   | 0.01            | Fog       |
| 30   | 0.06            | Rain      |
| 2013 | Precip.<br>(in) | Events    |
| Dec  | sum             |           |
| 1    | 0.03            | Rain      |
| 2    | 0.11            | Rain      |
| 3    | 0.01            |           |
| 4    | 0               |           |
| 5    | 0               |           |
| 6    | 0               |           |
| 7    | 0               |           |
| 8    | 0               |           |
| 9    | 0               | Snow      |
| 10   | 0               |           |
| 11   | 0               | Fog       |
| 12   | 0.22            | Fog, Rain |
| 13   | 0.01            |           |
| 14   | 0               |           |
| 15   | 0.03            | Rain      |
| 16   | 0               | Fog       |
| 17   | 0               |           |



| Date | Precip. (in) | Events     | Date | Precip. (in) | Events     | Date | Precip. (in) | Events |
|------|--------------|------------|------|--------------|------------|------|--------------|--------|
| 18   | 0.04         | Rain       | 22   | 0            |            | 2014 | Precip. (in) | Events |
| 19   | 0            |            | 23   | 0            |            | Mar  | sum          |        |
| 20   | 0.1          | Rain, Snow | 24   | 0            | Fog        | 1    | 0.01         | Rain   |
| 21   | 0.22         | Rain       | 25   | 0            | Fog        | 2    | 0.7          | Rain   |
| 22   | 0.21         | Rain       | 26   | 0            | Fog        | 3    | 0.37         | Rain   |
| 23   | 0.01         | Rain       | 27   | 0            | Fog        | 4    | 0.41         | Rain   |
| 24   | 0            |            | 28   | 0.35         | Rain       | 5    | 1.44         | Rain   |
| 25   | 0            | Fog        | 29   | 0.77         | Rain       | 6    | 0.21         | Rain   |
| 26   | 0            | Fog        | 30   | 0.01         |            | 7    | 0            |        |
| 27   | 0.03         | Fog, Rain  | 31   | 0.03         | Rain       | 8    | 1.12         | Rain   |
| 28   | 0            | Fog        | 2014 | Precip. (in) | Events     | 9    | 0.26         | Rain   |
| 29   | 0            | Fog        | Feb  | sum          |            | 10   | 0.44         | Rain   |
| 30   | 0.02         | Rain       | 1    | 0.02         | Fog, Rain  | 11   | 0            |        |
| 31   | 0.01         | Fog        | 2    | 0            | Fog        | 12   | 0            | Fog    |
| 2014 | Precip. (in) | Events     | 3    | 0            |            | 13   | 0            | Rain   |
| Jan  | sum          |            | 4    | 0            |            | 14   | 0.11         | Rain   |
| 1    | 0.01         | Fog, Rain  | 5    | 0            |            | 15   | 0.2          | Rain   |
| 2    | 0.53         | Rain       | 6    | 0            |            | 16   | 1.09         | Rain   |
| 3    | 0.03         | Rain       | 7    | 0            |            | 17   | 0.01         |        |
| 4    | 0            |            | 8    | 0.09         | Snow       | 18   | 0.01         |        |
| 5    | 0            | Fog        | 9    | 0.01         | Rain, Snow | 19   | 0            | Rain   |
| 6    | 0            |            | 10   | 0.54         | Rain       | 20   | 0            | Rain   |
| 7    | 0.34         | Rain       | 11   | 0.75         | Rain       | 21   | 0            |        |
| 8    | 0.44         | Rain       | 12   | 0.14         | Rain       | 22   | 0            |        |
| 9    | 0.09         | Rain       | 13   | 0            | Rain       | 23   | 0            |        |
| 10   | 0.15         | Rain       | 14   | 0.41         | Rain       | 24   | 0            |        |
| 11   | 0.91         | Rain       | 15   | 0.51         | Rain       | 25   | 0.22         | Rain   |
| 12   | 0.02         | Rain       | 16   | 1.41         | Rain       | 26   | 0.06         | Rain   |
| 13   | 0.01         |            | 17   | 0.44         | Rain       | 27   | 0.03         | Rain   |
| 14   | 0            |            | 18   | 0.62         | Rain       | 28   | 0.51         | Rain   |
| 15   | 0            |            | 19   | 0.02         | Rain       | 29   | 0.63         | Rain   |
| 16   | 0            |            | 20   | 0.03         | Rain       | 30   | 0.02         |        |
| 17   | 0            |            | 21   | 0.23         | Rain       | 31   | 0            |        |
| 18   | 0            |            | 22   | 0.09         | Rain       | 2014 | Precip. (in) | Events |
| 19   | 0            |            | 23   | 0.18         | Rain       | Apr  | sum          |        |
| 20   | 0            |            | 24   | 0.39         | Rain       | 1    | 0            |        |
| 21   | 0            | Fog        | 25   | 0            |            | 2    | 0            |        |
|      |              |            | 26   | 0            |            | 3    | 0.11         | Rain   |
|      |              |            | 27   | 0            |            | 4    | 0            | Rain   |
|      |              |            | 28   | 0            |            |      |              |        |

| Date        | Precip. (in)        | Events        | Date        | Precip. (in)        | Events        | Date        | Precip. (in)        | Events        |
|-------------|---------------------|---------------|-------------|---------------------|---------------|-------------|---------------------|---------------|
| 5           | 0.08                | Rain          |             |                     |               | 18          | 0                   |               |
| 6           | 0                   |               | 13          | 0                   |               | 19          | 0                   | Rain          |
| 7           | 0                   |               |             |                     |               | 20          | 0                   | Rain          |
| 8           | 0.37                | Rain          | 14          | 0                   |               | 21          | 0                   |               |
| 9           | 0.01                |               | 15          | 0                   |               | 22          | 0                   |               |
| 10          | 0                   |               | 16          | 0                   |               | 23          | 0                   | Rain          |
| 11          | 0                   |               | 17          | 0                   |               | 24          | 0                   |               |
| 12          | 0                   |               | 18          | 0.04                | Rain          |             |                     |               |
| 13          | 0                   |               | 19          | 0                   |               | 25          | 0                   |               |
| 14          | 0                   |               | 20          | 0                   |               |             |                     |               |
| 15          | 0.01                | Rain          | 21          | 0                   |               | 26          | 0                   | Rain          |
| 16          | 0.41                | Rain          | 22          | 0                   |               | 27          | 0                   | Rain          |
| 17          | 0.7                 | Rain          | 23          | 0.16                | Rain          | 28          | 0                   | Rain          |
| 18          | 0                   |               | 24          | 0                   |               | 29          | 0                   |               |
| 19          | 0.36                | Rain          | 25          | 0.27                | Rain          | 30          | 0                   |               |
| 20          | 0                   |               | 26          | 0.01                |               |             |                     |               |
| 21          | 0.14                | Rain          | 27          | 0                   | Rain          | <b>2014</b> | <b>Precip. (in)</b> | <b>Events</b> |
| 22          | 0.53                | Rain          | 28          | 0.03                | Rain          | Jul         | sum                 |               |
| 23          | 0.22                | Rain          | 29          | 0                   |               | 1           | 0                   |               |
| 24          | 0.3                 | Rain          | 30          | 0                   |               | 2           | 0                   |               |
| 25          | 0.05                |               | 31          | 0                   |               | 3           | 0                   |               |
| 26          | 0.18                | Rain          |             |                     |               | 4           | 0                   |               |
| 27          | 0                   | Rain          | <b>2014</b> | <b>Precip. (in)</b> | <b>Events</b> | 5           | 0                   |               |
| 28          | 0                   |               | Jun         | sum                 |               | 6           | 0                   |               |
| 29          | 0                   |               | 1           | 0                   |               | 7           | 0                   |               |
| 30          | 0                   |               | 2           | 0                   |               | 8           | 0                   |               |
| <b>2014</b> | <b>Precip. (in)</b> | <b>Events</b> | 3           | 0                   |               | 9           | 0                   |               |
| May         | sum                 |               | 4           | 0                   |               | 10          | 0                   |               |
| 1           | 0                   |               | 5           | 0                   |               | 11          | 0                   |               |
| 2           | 0                   | Rain          | 6           | 0                   |               | 12          | 0                   |               |
| 3           | 1.19                | Rain          | 7           | 0                   |               | 13          | 0                   | Rain          |
| 4           | 0.26                | Rain          | 8           | 0                   |               | 14          | 0                   |               |
| 5           | 0.24                | Rain          | 9           | 0                   |               | 15          | 0                   |               |
| 6           | 0                   |               | 10          | 0                   |               | 16          | 0                   |               |
| 7           | 0                   |               | 11          | 0                   |               | 17          | 0                   |               |
| 8           | 0.32                | Rain          | 12          | 0                   | Rain          | 18          | 0                   |               |
| 9           | 0.07                | Rain          | 13          | 0.03                | Rain          | 19          | 0                   |               |
| 10          | 0                   |               | 14          | 0                   | Rain          | 20          | 0                   |               |
| 11          | 0.01                |               | 15          | 0.01                | Rain          | 21          | 0                   | Rain          |
| 12          | 0                   |               | 16          | 0.11                | Rain          | 22          | 0                   |               |
|             |                     |               | 17          | 0.05                | Rain          | 23          | 0                   | Rain          |

Date Precip. (in) Events

| 24   | 0            | Rain   |
|------|--------------|--------|
| 25   | 0            |        |
| 26   | 0            |        |
| 27   | 0            |        |
| 28   | 0            |        |
| 29   | 0            |        |
| 30   | 0            |        |
| 31   | 0            |        |
| 2014 | Precip. (in) | Events |
| Aug  | sum          |        |
| 1    | 0            |        |
| 2    | 0            |        |
| 3    | 0            |        |
| 4    | 0            |        |
| 5    | 0            |        |
| 6    | 0            |        |
| 7    | 0            |        |
| 8    | 0            |        |
| 9    | 0            |        |
| 10   | 0            |        |
| 11   | 0            | Rain   |
| 12   | 0            | Rain   |
| 13   | 0            | Rain   |
| 14   | 0            | Rain   |
| 15   | 0            | Rain   |
| 16   | 0            |        |
| 17   | 0            |        |
| 18   | 0            |        |
| 19   | 0            |        |
| 20   | 0            |        |
| 21   | 0            |        |
| 22   | 0            |        |
| 23   | 0            |        |
| 24   | 0            |        |
| 25   | 0            |        |
| 26   | 0            |        |

Date Precip. (in) Events

| 27   | 0            |        |
|------|--------------|--------|
| 28   | 0            |        |
| 29   | 0            |        |
| 30   | 0            | Rain   |
| 31   | 0            | Rain   |
| 2014 | Precip. (in) | Events |
| Sep  | sum          |        |
| 1    | 0            | Rain   |
| 2    | 0            | Rain   |
| 3    | 0            |        |
| 4    | 0            |        |
| 5    | 0            |        |
| 6    | 0            |        |
| 7    | 0            |        |
| 8    | 0            | Rain   |
| 9    | 0            |        |
| 10   | 0            |        |
| 11   | 0            |        |
| 12   | 0            |        |
| 13   | 0            |        |
| 14   | 0            |        |
| 15   | 0            |        |
| 16   | 0            |        |
| 17   | 0            | Rain   |
| 18   | 0            | Rain   |
| 19   | 0            |        |
| 20   | 0            |        |
| 21   | 0            |        |
| 22   | 0            |        |
| 23   | 0            | Rain   |
| 24   | 0.66         | Rain   |
| 25   | 0.27         | Rain   |
| 26   | 0.09         | Rain   |

Date Precip. (in) Events

| 27   | 0            |           |
|------|--------------|-----------|
| 28   | 0            |           |
| 29   | 0            | Fog, Rain |
| 30   | 0            | Rain      |
| 2014 | Precip. (in) | Events    |
| Oct  | sum          |           |
| 1    | 0            |           |
| 2    | 0            |           |
| 3    | 0            |           |
| 4    | 0            |           |
| 5    | 0            |           |
| 6    | 0            |           |
| 7    | 0            |           |
| 8    | 0            |           |
| 9    | 0            |           |
| 10   | 0            | Fog, Rain |
| 11   | 0            | Rain      |
| 12   | 0            | Rain      |
| 13   | 0            | Rain      |
| 14   | 0.11         | Rain      |
| 15   | 0.45         | Rain      |
| 16   | 0            | Rain      |
| 17   | 0.14         | Rain      |
| 18   | 0.31         | Rain      |
| 19   | 0            |           |
| 20   | 0.44         | Rain      |
| 21   | 0.1          | Rain      |
| 22   | 1.43         | Rain      |
| 23   | 0.35         | Rain      |
| 24   | 0.13         | Rain      |
| 25   | 0.37         | Rain      |
| 26   | 0.05         | Rain      |
| 27   | 0.01         | Rain      |
| 28   | 0.34         | Rain      |
| 29   | 0.04         | Rain      |
| 30   | 0.67         | Rain      |
| 31   | 0.77         | Rain      |

Date Precip. (in) Events

Date Precip. (in) Events

Date Precip. (in) Events

| 2014 | Precip. (in) | Events     |
|------|--------------|------------|
| Nov  | sum          |            |
| 1    | 0            |            |
| 2    | 0.11         | Rain       |
| 3    | 0.24         | Rain       |
| 4    | 0.05         | Rain       |
| 5    | 0.27         | Rain       |
| 6    | 0.22         | Rain       |
| 7    | 0            |            |
| 8    | 0            |            |
| 9    | 0.29         | Rain       |
| 10   | 0            |            |
| 11   | 0            |            |
| 12   | 0            |            |
| 13   | 0            |            |
| 14   | 0            |            |
| 15   | 0            |            |
| 16   | 0            |            |
| 17   | 0            |            |
| 18   | 0            |            |
| 19   | 0            | Rain       |
| 20   | 0.11         | Rain       |
| 21   | 0.67         | Rain       |
| 22   | 0.03         | Rain       |
| 23   | 0.42         | Rain       |
| 24   | 0.01         | Rain       |
| 25   | 0.33         | Rain       |
| 26   | 0.01         | Rain       |
| 27   | 0.04         | Rain       |
| 28   | 1.39         | Rain       |
| 29   | 0.06         | Rain, Snow |
| 30   | 0            |            |
| 2014 | Precip. (in) | Events     |
| Dec  | sum          |            |
| 1    | 0            |            |
| 2    | 0            |            |
| 3    | 0            |            |
| 4    | 0.05         | Rain       |
| 5    | 0.09         | Rain       |

| 6    | 0.25         | Rain      |
|------|--------------|-----------|
| 7    | 0            | Fog       |
| 8    | 0.45         | Rain      |
| 9    | 0.42         | Rain      |
| 10   | 0.5          | Rain      |
| 11   | 0.33         | Rain      |
| 12   | 0            |           |
| 13   | 0.01         |           |
| 14   | 0            | Fog       |
| 15   | 0            |           |
| 16   | 0            | Rain      |
| 17   | 0.16         | Rain      |
| 18   | 0.6          | Rain      |
| 19   | 0.13         | Rain      |
| 20   | 0.6          | Rain      |
| 21   | 0            |           |
| 22   | 0            |           |
| 23   | 0.61         | Rain      |
| 24   | 0.12         | Rain      |
| 25   | 0            |           |
| 26   | 0            |           |
| 27   | 0.12         | Rain      |
| 28   | 0.06         | Rain      |
| 29   | 0            |           |
| 30   | 0            |           |
| 31   | 0            |           |
| 2015 | Precip. (in) | Events    |
| Jan  | sum          |           |
| 1    | 0            |           |
| 2    | 0.03         |           |
| 3    | 0            | Rain      |
| 4    | 0.22         | Rain      |
| 5    | 0.07         | Rain      |
| 6    | 0.01         | Fog       |
| 7    | 0            |           |
| 8    | 0            | Fog       |
| 9    | 0.01         | Fog, Rain |

| 10   | 0.18         | Rain      |
|------|--------------|-----------|
| 11   | 0.06         | Fog, Rain |
| 12   | 0            | Rain      |
| 13   | 0            |           |
| 14   | 0            |           |
| 15   | 0.43         | Rain      |
| 16   | 0            |           |
| 17   | 0.76         | Rain      |
| 18   | 0.23         | Rain      |
| 19   | 0.03         | Rain      |
| 20   | 0            |           |
| 21   | 0            | Fog       |
| 22   | 0.03         | Rain      |
| 23   | 0.08         | Rain      |
| 24   | 0.02         |           |
| 25   | 0.01         |           |
| 26   | 0            | Fog       |
| 27   | 0.02         | Rain      |
| 28   | 0            |           |
| 29   | 0            |           |
| 30   | 0            | Fog       |
| 31   | 0            | Fog       |
| 2015 | Precip. (in) | Events    |
| Feb  | sum          |           |
| 1    | 0.04         | Rain      |
| 2    | 0.3          | Rain      |
| 3    | 0.03         | Fog, Rain |
| 4    | 0.3          | Fog, Rain |
| 5    | 0.87         | Rain      |
| 6    | 0.75         | Rain      |
| 7    | 0.82         | Rain      |
| 8    | 0.15         | Rain      |
| 9    | 0.15         | Rain      |
| 10   | 0.02         | Rain      |
| 11   | 0            |           |
| 12   | 0.02         | Rain      |
| 13   | 0            | Rain      |
| 14   | 0.05         | Rain      |
| 15   | 0            |           |

Date Precip. (in) Events

|             |                     |               |
|-------------|---------------------|---------------|
| 16          | 0                   |               |
| 17          | 0                   |               |
| 18          | 0                   |               |
| 19          | 0.03                | Rain          |
| 20          | 0.02                | Rain          |
| 21          | 0                   |               |
| 22          | 0                   |               |
| 23          | 0                   |               |
| 24          | 0                   |               |
| 25          | 0.07                | Rain          |
| 26          | 0.22                | Rain          |
| 27          | 0.73                | Rain          |
| 28          | 0                   |               |
| <b>2015</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Mar         | sum                 |               |
| 1           | 0                   |               |
| 2           | 0                   |               |
| 3           | 0                   |               |
| 4           | 0                   |               |
| 5           | 0                   |               |
| 6           | 0                   |               |
| 7           | 0                   | Rain          |
| 8           | 0                   |               |
| 9           | 0                   |               |
| 10          | 0                   | Fog, Rain     |
| 11          | 0.09                | Rain          |
| 12          | 0                   |               |
| 13          | 0.04                | Rain          |
| 14          | 0.54                | Rain          |
| 15          | 2.2                 | Rain          |
| 16          | 0                   |               |
| 17          | 0.03                | Rain          |
| 18          | 0                   |               |
| 19          | 0.01                | Rain          |
| 20          | 0.12                | Rain          |
| 21          | 0.13                | Rain          |
| 22          | 0.07                | Rain          |
| 23          | 0.2                 | Fog, Rain     |
| 24          | 0.27                | Rain          |
| 25          | 0.15                | Rain          |

Date Precip. (in) Events

|             |                     |               |
|-------------|---------------------|---------------|
| 26          | 0                   |               |
| 27          | 0.01                | Rain          |
| 28          | 0                   |               |
| 29          | 0                   |               |
| 30          | 0.02                | Rain          |
| 31          | 0.31                | Rain          |
| <b>2015</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Apr         | sum                 |               |
| 1           | 0.05                | Rain          |
| 2           | 0                   | Rain          |
| 3           | 0.05                | Rain          |
| 4           | 0                   |               |
| 5           | 0                   |               |
| 6           | 0                   | Rain          |
| 7           | 0.01                | Rain          |
| 8           | 0                   |               |
| 9           | 0                   |               |
| 10          | 0.52                | Rain          |
| 11          | 0.02                | Rain          |
| 12          | 0                   |               |
| 13          | 0.46                | Rain          |
| 14          | 0.05                | Rain          |
| 15          | 0                   | Rain          |
| 16          | 0                   | Rain          |
| 17          | 0                   |               |
| 18          | 0                   | Rain          |
| 19          | 0                   |               |
| 20          | 0                   | Rain          |
| 21          | 0.16                | Rain          |
| 22          | 0                   |               |
| 23          | 0.1                 | Rain          |
| 24          | 0.15                | Rain          |
| 25          | 0.01                |               |
| 26          | 0                   |               |
| 27          | 0                   | Rain          |
| 28          | 0.11                | Rain          |
| 29          | 0.01                |               |
| 30          | 0                   |               |
| <b>2015</b> | <b>Precip. (in)</b> | <b>Events</b> |

Date Precip. (in) Events

|             |                     |               |
|-------------|---------------------|---------------|
| May         | sum                 |               |
| 1           | 0                   |               |
| 2           | 0                   |               |
| 3           | 0                   |               |
| 4           | 0                   |               |
| 5           | 0.18                | Rain          |
| 6           | 0                   |               |
| 7           | 0                   |               |
| 8           | 0                   |               |
| 9           | 0                   |               |
| 10          | 0                   |               |
| 11          | 0                   | Rain          |
| 12          | 0.11                | Rain          |
| 13          | 0.14                | Rain          |
| 14          | 0                   |               |
| 15          | 0.01                |               |
| 16          | 0                   |               |
| 17          | 0                   |               |
| 18          | 0                   |               |
| 19          | 0                   |               |
| 20          | 0                   |               |
| 21          | 0                   |               |
| 22          | 0                   |               |
| 23          | 0                   | Rain          |
| 24          | 0                   |               |
| 25          | 0                   |               |
| 26          | 0                   |               |
| 27          | 0                   |               |
| 28          | 0                   |               |
| 29          | 0                   |               |
| 30          | 0                   |               |
| 31          | 0                   |               |
| <b>2015</b> | <b>Precip. (in)</b> | <b>Events</b> |
| Jun         | sum                 |               |
| 1           | 0.09                | Rain          |
| 2           | 0                   |               |
| 3           | 0                   |               |
| 4           | 0                   |               |
| 5           | 0                   |               |
| 6           | 0                   |               |



Date Precip. (in) Events

|             |                         |                       |
|-------------|-------------------------|-----------------------|
| 7           | 0                       |                       |
| 8           | 0                       |                       |
| 9           | 0                       |                       |
| 10          | 0                       |                       |
| 11          | 0                       |                       |
| 12          | 0                       |                       |
| 13          | 0                       |                       |
| 14          | 0                       |                       |
| 15          | 0                       |                       |
| 16          | 0                       |                       |
| 17          | 0                       |                       |
| 18          | 0                       |                       |
| 19          | 0.07                    | Rain                  |
| 20          | 0                       |                       |
| 21          | 0                       |                       |
| 22          | 0                       |                       |
| 23          | 0                       |                       |
| 24          | 0                       |                       |
| 25          | 0                       |                       |
| 26          | 0                       |                       |
| 27          | 0                       |                       |
| 28          | 0                       | Rain,<br>Thunderstorm |
| 29          | 0.01                    | Rain                  |
| 30          | 0                       |                       |
| <b>2015</b> | <b>Precip.<br/>(in)</b> | <b>Events</b>         |
| Jul         | sum                     |                       |
| 1           | 0                       |                       |
| 2           | 0                       |                       |
| 3           | 0                       |                       |
| 4           | 0                       |                       |
| 5           | 0                       |                       |
| 6           | 0                       |                       |
| 7           | 0                       |                       |
| 8           | 0                       |                       |
| 9           | 0                       |                       |
| 10          | 0                       |                       |
| 11          | 0                       |                       |
| 12          | 0                       |                       |
| 13          | 0                       |                       |
| 14          | 0                       |                       |

Date Precip. (in) Events

|             |                         |                       |
|-------------|-------------------------|-----------------------|
| 15          | 0                       |                       |
| 16          | 0                       |                       |
| 17          | 0                       |                       |
| 18          | 0                       |                       |
| 19          | 0                       |                       |
| 20          | 0                       |                       |
| 21          | 0.13                    | Rain                  |
| 22          | 0                       |                       |
| 23          | 0                       |                       |
| 24          | 0.01                    | Rain                  |
| 25          | 0.02                    | Rain                  |
| 26          | 0.1                     | Rain                  |
| 27          | 0.01                    |                       |
| 28          | 0                       |                       |
| 29          | 0                       |                       |
| 30          | 0                       |                       |
| 31          | 0                       |                       |
| <b>2015</b> | <b>Precip.<br/>(in)</b> | <b>Events</b>         |
| Aug         | sum                     |                       |
| 1           | 0                       |                       |
| 2           | 0                       |                       |
| 3           | 0                       |                       |
| 4           | 0                       |                       |
| 5           | 0                       |                       |
| 6           | 0                       |                       |
| 7           | 0                       |                       |
| 8           | 0                       |                       |
| 9           | 0                       |                       |
| 10          | 0                       | Rain                  |
| 11          | 0                       |                       |
| 12          | 0.04                    | Rain,<br>Thunderstorm |
| 13          | 0                       |                       |
| 14          | 0.57                    | Rain,<br>Thunderstorm |
| 15          | 0                       |                       |
| 16          | 0                       |                       |
| 17          | 0                       |                       |
| 18          | 0                       |                       |
| 19          | 0                       |                       |
| 20          | 0                       |                       |

Date Precip. (in) Events

|             |                         |               |
|-------------|-------------------------|---------------|
| 21          | 0                       |               |
| 22          | 0                       |               |
| 23          | 0                       |               |
| 24          | 0                       |               |
| 25          | 0                       |               |
| 26          | 0                       |               |
| 27          | 0                       |               |
| 28          | 0.01                    | Rain          |
| 29          | 0.18                    | Rain          |
| 30          | 0.24                    | Rain          |
| 31          | 0.06                    | Rain          |
| <b>2015</b> | <b>Precip.<br/>(in)</b> | <b>Events</b> |
| Sep         | sum                     |               |
| 1           | 0.17                    | Rain          |
| 2           | 0.02                    | Rain          |
| 3           | 0                       |               |
| 4           | 0                       |               |
| 5           | 0.06                    | Rain          |
| 6           | 0.19                    | Rain          |
| 7           | 0                       |               |
| 8           | 0                       |               |
| 9           | 0                       |               |
| 10          | 0.01                    |               |
| 11          | 0                       |               |
| 12          | 0                       |               |
| 13          | 0.03                    | Rain          |
| 14          | 0                       |               |
| 15          | 0                       |               |
| 16          | 0.04                    | Rain          |
| 17          | 0.58                    | Rain          |
| 18          | 0.01                    |               |
| 19          | 0                       |               |
| 20          | 0.09                    | Rain          |
| 21          | 0                       |               |
| 22          | 0                       |               |
| 23          | 0                       |               |
| 24          | 0                       |               |
| 25          | 0.03                    | Rain          |
| 26          | 0                       |               |
| 27          | 0                       |               |

| Date        | Precip. (in)            | Events        | Date        | Precip. (in)            | Events        | Date        | Precip. (in)            | Events                |
|-------------|-------------------------|---------------|-------------|-------------------------|---------------|-------------|-------------------------|-----------------------|
| 28          | 0                       |               | 1           | 0.5                     | Rain          | 8           | 1.51                    | Rain                  |
| 29          | 0                       | Rain          | 2           | 0.07                    | Rain          | 9           | 0.56                    | Rain,<br>Thunderstorm |
| 30          | 0                       |               | 3           | 0.07                    | Rain          | 10          | 0.63                    | Rain,<br>Thunderstorm |
| <b>2015</b> | <b>Precip.<br/>(in)</b> | <b>Events</b> | 4           | 0                       |               | 11          | 0.01                    | Rain                  |
| Oct         | sum                     |               | 5           | 0.01                    | Rain          | 12          | 0.56                    | Rain                  |
| 1           | 0.01                    | Fog           | 6           | 0.01                    | Rain          | 13          | 0.11                    | Rain                  |
| 2           | 0                       |               | 7           | 0.49                    | Rain          | 14          | 0                       | Snow                  |
| 3           | 0                       |               | 8           | 0.38                    | Rain          | 15          | 0.02                    | Fog, Rain             |
| 4           | 0                       |               | 9           | 0.16                    | Rain          | 16          | 0.13                    | Rain                  |
| 5           | 0                       |               | 10          | 0.06                    | Fog, Rain     | 17          | 0.82                    | Rain                  |
| 6           | 0.01                    |               | 11          | 0.05                    | Rain          | 18          | 0.54                    | Rain                  |
| 7           | 0.38                    | Rain          | 12          | 0.24                    | Rain          | 19          | 0.01                    | Rain                  |
| 8           | 0                       |               | 13          | 1.31                    | Rain          | 20          | 0.19                    | Rain                  |
| 9           | 0.01                    | Fog, Rain     | 14          | 1.64                    | Rain          | 21          | 0.83                    | Rain                  |
| 10          | 0.77                    | Rain          | 15          | 0.75                    | Rain          | 22          | 0.12                    | Rain                  |
| 11          | 0                       |               | 16          | 0.09                    | Rain          | 23          | 0.09                    | Rain                  |
| 12          | 0.34                    | Rain          | 17          | 0.74                    | Rain          | 24          | 0.11                    | Rain                  |
| 13          | 0.07                    | Rain          | 18          | 0.03                    | Rain          | 25          | 0.05                    | Rain                  |
| 14          | 0                       |               | 19          | 0.08                    | Rain          | 26          | 0                       |                       |
| 15          | 0                       |               | 20          | 0                       |               | 27          | 0.32                    | Rain                  |
| 16          | 0.01                    |               | 21          | 0                       |               | 28          | 0.03                    | Rain                  |
| 17          | 0.04                    | Rain          | 22          | 0                       |               | 29          | 0                       |                       |
| 18          | 0.16                    | Rain          | 23          | 0.12                    | Rain          | 30          | 0                       |                       |
| 19          | 0                       | Rain          | 24          | 0.21                    | Rain          | 31          | 0                       |                       |
| 20          | 0                       |               | 25          | 0                       |               | <b>2016</b> | <b>Precip.<br/>(in)</b> | <b>Events</b>         |
| 21          | 0                       |               | 26          | 0                       |               | Jan         | sum                     |                       |
| 22          | 0.01                    | Fog           | 27          | 0                       |               | 1           | 0                       |                       |
| 23          | 0                       | Fog           | 28          | 0                       | Snow          | 2           | 0                       |                       |
| 24          | 0.01                    | Rain          | 29          | 0                       | Fog           | 3           | 0.01                    | Rain, Snow            |
| 25          | 0.35                    | Rain          | 30          | 0.01                    | Fog, Rain     | 4           | 0.07                    | Rain                  |
| 26          | 0.09                    | Rain          | <b>2015</b> | <b>Precip.<br/>(in)</b> | <b>Events</b> | 5           | 0.11                    | Rain                  |
| 27          | 0.01                    |               | Dec         | sum                     |               | 6           | 0                       |                       |
| 28          | 0.1                     | Rain          | 1           | 0.39                    | Rain          | 7           | 0                       | Fog                   |
| 29          | 0.02                    | Rain          | 2           | 0.06                    | Rain          | 8           | 0                       | Fog                   |
| 30          | 0.36                    | Rain          | 3           | 0.52                    | Rain          | 9           | 0                       | Fog                   |
| 31          | 0.99                    | Rain          | 4           | 0.12                    | Rain          | 10          | 0                       |                       |
| <b>2015</b> | <b>Precip.<br/>(in)</b> | <b>Events</b> | 5           | 0.81                    | Rain          | 11          | 0.09                    | Rain                  |
| Nov         | sum                     |               | 6           | 0.55                    | Rain          | 12          | 0.52                    | Rain                  |
|             |                         |               | 7           | 1.06                    | Rain          |             |                         |                       |

| Date | Precip. (in)        | Events     | Date | Precip. (in)        | Events             | Date | Precip. (in)        | Events |
|------|---------------------|------------|------|---------------------|--------------------|------|---------------------|--------|
| 13   | 0.57                | Rain       | 17   | 0.46                | Rain               | 24   | 0                   | Rain   |
| 14   | 0                   |            | 18   | 0.12                | Rain               | 25   | 0                   |        |
| 15   | 0.04                | Rain, Snow | 19   | 0.49                | Rain               | 26   | 0.04                | Rain   |
| 16   | 0.41                | Rain       | 20   | 0                   | Rain               | 27   | 0.48                | Rain   |
| 17   | 0.32                | Rain       | 21   | 0.07                | Rain               | 28   | 0                   | Rain   |
| 18   | 0.05                | Rain       | 22   | 0.01                | Rain               | 29   | 0                   |        |
| 19   | 0.46                | Rain       | 23   | 0                   |                    | 30   | 0                   |        |
| 20   | 0.2                 | Rain       | 24   | 0.02                | Rain               | 31   | 0                   |        |
| 21   | 0.82                | Rain       | 25   | 0                   | Fog , Rain         | 2016 | <b>Precip. (in)</b> | Events |
| 21   | 1.27                | Rain       | 26   | 0.15                | Rain               | Apr  | <b>sum</b>          |        |
| 22   | 0.27                | Rain       | 27   | 0.08                | Rain               | 1    | 0                   |        |
| 23   | 0.53                | Rain       | 28   | 0.68                | Rain               | 2    | 0                   |        |
| 24   | 0                   |            | 29   | 0.12                | Rain               | 3    | 0.12                | Rain   |
| 25   | 0                   |            | 2016 | <b>Precip. (in)</b> | Events             | 4    | 0.17                | Rain   |
| 26   | 0.27                | Rain       | Mar  | <b>sum</b>          |                    | 5    | 0                   |        |
| 27   | 0.8                 | Rain       | 1    | 0.71                | Rain               | 6    | 0                   |        |
| 28   | 0.52                | Rain       | 2    | 0.27                | Rain               | 7    | 0                   |        |
| 29   | 0.18                | Rain       | 3    | 0.03                | Rain               | 8    | 0                   |        |
| 30   | 0.02                | Rain       | 4    | 0.21                | Rain               | 9    | 0                   |        |
| 31   | 0                   |            | 5    | 0.2                 | Rain               | 10   | 0                   |        |
| 2016 | <b>Precip. (in)</b> | Events     | 6    | 0.39                | Rain               | 11   | 0                   |        |
| Feb  | <b>sum</b>          |            | 7    | 0.26                | Rain               | 12   | 0.44                | Rain   |
| 1    | 0.25                | Rain       | 8    | 0.03                | Rain               | 13   | 0                   | Rain   |
| 2    | 0.02                | Fog , Rain | 9    | 0.97                | Rain               | 14   | 0.2                 | Rain   |
| 3    | 0.48                | Rain       | 10   | 0.32                | Rain               | 15   | 0                   |        |
| 4    | 0.05                | Rain       | 11   | 0.35                | Fog , Rain         | 16   | 0                   |        |
| 5    | 0.15                | Rain       | 12   | 0.2                 | Rain               | 17   | 0                   |        |
| 6    | 0                   |            | 13   | 0.52                | Rain               | 18   | 0                   |        |
| 7    | 0                   |            | 14   | 0.06                | Rain, Thunderstorm | 19   | 0                   |        |
| 8    | 0                   |            | 15   | 0                   |                    | 20   | 0                   |        |
| 9    | 0                   | Fog        | 16   | 0                   |                    | 21   | 0                   | Rain   |
| 10   | 0.16                | Rain       | 17   | 0                   |                    | 22   | 0.02                | Rain   |
| 11   | 0.37                | Rain       | 18   | 0                   |                    | 23   | 0.02                | Rain   |
| 12   | 0.86                | Rain       | 19   | 0                   |                    | 24   | 0.27                | Rain   |
| 13   | 0.36                | Rain       | 20   | 0.08                | Rain               | 25   | 0.1                 |        |
| 14   | 0                   |            | 21   | 0.28                | Rain               | 26   | 0                   |        |
| 15   | 0.12                | Rain       | 22   | 0.01                | Rain               | 27   | 0                   |        |
| 16   | 0.01                | Rain       | 23   | 0.13                | Rain               | 28   | 0                   |        |
|      |                     |            |      |                     |                    | 29   | 0.04                | Rain   |



Date Precip. (in) Events

Date Precip. (in) Events

Date Precip. (in) Events

|      |                         |        |
|------|-------------------------|--------|
| 30   | 0                       |        |
| 2016 | <b>Precip.<br/>(in)</b> | Events |
| May  | <b>sum</b>              |        |
| 1    | 0                       |        |
| 2    | 0                       |        |
| 3    | 0                       |        |
| 4    | 0                       |        |
| 5    | 0                       |        |
| 6    | 0                       |        |
| 7    | 0                       |        |
| 8    | 0.02                    | Rain   |
| 9    | 0                       |        |
| 10   | 0                       |        |
| 11   | 0                       |        |
| 12   | 0                       |        |
| 13   | 0                       |        |
| 14   | 0                       |        |
| 15   | 0                       |        |
| 16   | 0                       |        |
| 17   | 0                       |        |
| 18   | 0                       |        |
| 19   | 0.22                    | Rain   |
| 20   | 0                       |        |
| 21   | 0.04                    | Rain   |
| 22   | 0                       |        |
| 23   | 0                       |        |
| 24   | 0                       |        |
| 25   | 0                       |        |
| 26   | 0                       |        |
| 27   | 0.02                    | Rain   |
| 28   | 0.03                    | Rain   |
| 29   | 0                       |        |
| 30   | 0                       |        |
| 31   | 0                       |        |
| 2016 | <b>Precip.<br/>(in)</b> | Events |
| Jun  | <b>sum</b>              |        |
| 1    | 0                       |        |
| 2    | 0                       |        |
| 3    | 0                       |        |

|   |   |  |
|---|---|--|
| 4 | 0 |  |
| 5 | 0 |  |
| 6 | 0 |  |
| 7 | 0 |  |



CERTIFICATE OF SERVICE

I, Jessie Sherwood, certify under penalty of perjury of the laws of the State of Washington that on October 24, 2016, I served copies of the foregoing Complaint via United States Mail, postage prepaid with return receipt requested, upon the following:

Attorney General Loretta E. Lynch  
U.S. Department of Justice  
950 Pennsylvania Ave. NW  
Washington, D.C. 20530-0001

Citizen Suit Coordinator  
Environmental & Natural Resources Division  
Law & Policy Section  
PO Box 7415  
Ben Franklin Station  
Washington, DC 20044-7415

Gina McCarthy  
Administrator, U.S. Environmental Protection Agency  
William Jefferson Clinton Building  
1200 Pennsylvania Avenue, N.W.  
Mail Code 1101A  
Washington, DC 20460

Dennis J. McLerran  
Regional Administrator  
U.S. Environmental Protection Agency, Region 10  
1200 Sixth Ave., Suite 900  
Seattle, WA 98101

This certificate is being prepared and maintained according to standard protocol for this office.

Jessie Sherwood  
Jessie Sherwood

10/24/2016  
Date

CERTIFICATE OF SERVICE

SMITH & LOWNEY, P.L.L.C.  
2317 EAST JOHN STREET  
SEATTLE, WASHINGTON 98112  
(206) 860-2883

